

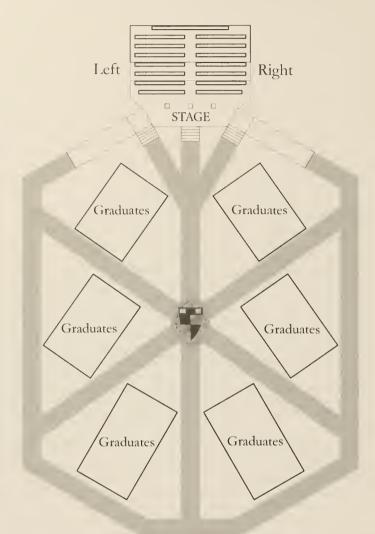


2004 Commencement

CONFERRING OF DEGREES at the Close of the 128th Academic Year

CLASS OF 2004 May 20, 2004 9:15 a.m.

GRADUATES SEATING



Order of Seating Facing Stage (Graduates Left)

Doctors of Philosophy and Doctors of Medicine - Medicine Doctors of Philosophy - Adranced International Studies Doctors of Philosophy, Doctors of Public Health and Doctors of Science - Public Health Doctors of Philosophy and Doctors of Nursing Science - Nursing Doctors of Musical Arts and Artist Diplomas - Peabody Doctors of Education - Professional Studies in Business and Education Masters - Medicine Masters - Medicine Masters - Adranced International Studies Masters and Bachelors - Nursing Masters, Certificates, Diplomas, and Bachelors - Peabody Certificates of Advanced Graduate Study and Masters -Professional Studies in Business and Education

Bachelors - Professional Studies in Business and Education

Order of Seating Facing Stage (Graduates Right)

Doctors of Philosophy - Arts and Sciences Doctors of Philosophy - Engineering Masters and Certificates - Arts and Sciences Masters and Certificates - Engineering Bachelors - Engineering Bachelors - Arts and Sciences

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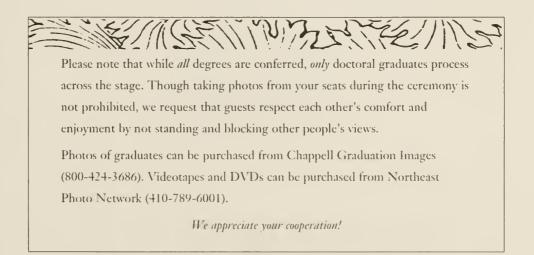
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ORDER OF PROCESSION

Marshals

Stephen Campbell Lenore Cohen Valeria Culotta Jane Dailey Sydney T. Green Jakub Grygiel Peter C. Maloney Vicki Mock

Marc Parlange Peter Petersen Mark Robbins Edyth Schoenrich Neil Thompson Shade Scott Smith James B. Spicer Susan Weiss

The Graduates

Marshals Christopher Brown Shiyi Chen

The Faculties

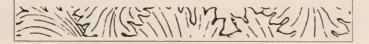
Marshals Michael D. Moyer

William P. Kotti

Officers of the University The Trustees Members of the Society of Scholars The Deaus

Chief Marshal Bruce B. Parrott

The President of The Johns Hopkins University Alumni Association The University Chaplain The Reader, Doctoral Candidates The Honorary Degree Candidates The Provost of the University The Chairman of the Board of Trustees The President of the University





William R. Brody President of the University, presiding

PRELUDE *Trinmpbal Marcb* Hector Berlioz (1803–1869)

Two Ayres for Cornetts and Sagbntts John Adson (c. 1585–1640)

Intrada, Sarabande, and Bal from Blasende Mnsic Johann Pezel (1639-1694)

Gandeamns Igitur (trad.)

Canzona No. 2 Giovanni Gabrieli (c. 1553–1612)

PROCESSIONAL

The audience is requested to stand as the Processional moves into the area and to remain standing until after *The National Anthem*.

Festive Marches from *Belshazzar*, *Floridante*, *Ezio*, *Scipione*, *Saint Cecilia's Day*, *Rinaldo*, and *Judas Maccabaens* George Frideric Handel (1685–1759)

THE PRESIDENT'S PROCESSION

Fanfare Walter Piston (1894–1976)

Grand Intrada from *Alceste* George Frideric Handel (1685–1759)

INVOCATION

Sharon M. K. Kugler University Chaplain

The National Anthem of the United States of America Sung by Jennifer J. Hobbs, 2004 Graduate

GREETINGS

Raymond A. "Chip" Mason Chairman of the Board of Trustees

GREETINGS

Joseph R. Reynolds President of The Johns Hopkins Almmni Association

PRESENTATION OF NEW MEMBERS OF THE

SOCIETY OF SCHOLARS

Lukas P. Baumgartner Vann Bennett Douglas F. Covey J. Richard Gaintner Pascal J. Goldschmidt David S. Guzick Steven A. Leibel R. John Leigh Sverre O. Lie Nubia Muñoz Suzanne Ostrand-Rosenberg Alan Pestronk John Milton Peters Andrew Weiland Garen J. Wintemute

PRESENTED BY Steven Knapp Provost and Senior Vice President for Academic Affairs

CONFERRING OF HONORARY DEGREES William H. "Bill" Cosby Jr.* The Honorable Ruth Bader Ginsburg J.G.A. Pocock Hamilton O. Smith

*to be presented at The Zanvyl Krieger School of Arts and Sciences and The G.W.C. Whiting School of Engineering Undergradnate Diploma Ceremony this afternoon

ADDRESS

William R. Brody President of the University

MUSICAL INTERLUDE

Anbade Elam Sprenkle (b. 1948) Commissioned by the International Astronomical Union, Baltimore Convention, 1988 The Festival Brass, Elam Sprenkle conducting

CONFERRING OF DEGREES ON CANDIDATES

Bachelors of Science in Applied Mathematics and Statistics Bachelors of Science in Biomedical Engineering Bachelors of Science in Chemical Engineering Bachelors of Science in Civil Engineering Bachelors of Science in Computer Engineering Bachelors of Science in Computer Science Bachelors of Science in Electrical Engineering Bachelors of Science in Engineering Mechanics Bachelors of Science in Engineering Science Bachelors of Science in Materials Science and Engineering Bachelors of Science in Mathematical Sciences and Engineering Bachelors of Science in Mechanical Engineering Bachelor of Arts Bachelors of Arts in Biomedical Engineering Bachelors of Arts in Computer Science Bachelors of Arts in Geography Bachelors of Arts in Applied Mathematics and Statistics Bachelors of Electrical Engineering Bachelors of Mechanical Engineering PRESENTED BY Andrew S. Douglas Interim Dean, The G.W.C. Whiting School of Engineering

Bachelors of Science

PRESENTED BY Martha N. Hill Dean, The School of Nursing

Undergradnate Certificates Bachelors of Science Bachelors of Liberal Arts Gradnate Certificates in Business Gradnate Certificates in Education

PRESENTED BY Ralph Fessler Dean, The School of Professional Studies in Business and Education

> Masters of Science Masters of Business Administration Masters of Arts in Teaching Post-Master's Certificates in Business Post-Master's Certificates in Education Certificates of Advanced Graduate Study

PRESENTED BY Ralph Fessler Dean, The School of Professional Studies in Business and Education

Masters of Science in Nursing Masters of Science in Nursing/Masters of Business Administration Masters of Science in Nursing/Masters of Public Health

> PRESENTED BY Martha N. Hill Dean, The School of Nursing

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Bachelors of Science in Physics Bachelors of Arts PRESENTED BY Daniel H. Weiss James B. Knapp Dean The Zanvyl Krieger School of Arts and Sciences

Bachelors of Science in Molecular and Cellular Biology

Performers Certificates Bacbelors of Music PRESENTED BY Robert Sirota Director, The Peabody Institute

3

Graduate Performance Diplomas Masters of Music Masters of Arts PRESENTED BY Robert Sirota Director, The Peabody Institute

Masters of Science Masters of Health Science Masters of Public Health

PRESENTED BY Alfred Sommer Dean, The Bloomberg School of Public Health

Masters of International Public Policy Masters of Arts in International Affairs Masters of Arts PRESENTED BY

Jessica P. Einhorn Dean, The Paul H. Nitze School of Advanced International Studies

Masters of Arts

PRESENTED BY Edward D. Miller Frances Watt Baker and Lenox D. Baker Jr. Dean of the Medical Faculty Graduate Certificates Certificates of Continuing Eugineering Studies Masters of Chemical Engineering Masters of Civil Engineering Masters of Environmental Engineering Masters of Mechanical Engineering Masters of Science Post-Master's Advanced Certificates Masters of Science in Engineering PRESENTED BY

Andrew S. Douglas Interim Dean, The G.W.C. Whiting School of Engineering

Certificates in Biotechnology Enterprise Masters of Arts Masters of Science Masters of Science in Biotechnology Masters of Arts in Communication in Coutemporary Society Masters of Arts in Developmental Psychology Masters of Science in Developmental Psychology Masters of Arts in Applied Economics Masters of Science in Environmental Sciences and Policy Masters of Arts in Government Masters of Liberal Arts Masters of Arts in Writing

> PRESENTED BY Daniel H. Weiss James B. Knapp Deau The Zanvyl Krieger School of Arts and Sciences

Doctors of Education

PRESENTED BY Ralph Fessler Dean, The School of Professional Studies in Business and Education Artist Diplomas Doctors of Musical Arts

Ster Willing Strange Strange

PRESENTED BY Robert Sirota Director, The Peabody Institute

Doctors of Nursing Science Doctors of Philosophy

PRESENTED BY Martha N. Hill Dean, The School of Nursing

Doctors of Science Doctors of Public Health Doctors of Philosophy

PRESENTED BY Alfred Sommer Dean, The Bloomberg School of Public Health

Doctors of Philosophy

PRESENTED BY Jessica P. Einhorn Deau, The Paul H. Nitze School of Advanced International Studies

> Doctors of Medicine Doctors of Philosophy

PRESENTED BY Edward D. Miller Frances Watt Baker and Leuox D. Baker Jr. Dean of the Medical Faculty

Doctors of Philosophy

PRESENTED BY Andrew S. Douglas Interim Dean, The G.W.C. Whiting School of Engineering

Doctors of Philosophy

PRESENTED BY Daniel H. Weiss James B. Knapp Deau The Zanvyl Krieger School of Arts and Sciences

RECESSIONAL March C.P.E. Bach (1714–1788) March from *Le Nozze di Figaro* Wolfgang Amadeus Mozart (1756–1791)

The audience is requested to remain standing until the principals, officials, members of the faculties, and the graduates have left the area.

> Music bas been provided by The Festival Brass, Ellery Woodworth, Conductor.

> > 2 2 2 1 10/1/



DIVISIONAL DIPLOMA CEREMONIES INFORMATION

The Paul H. Nitze School of Advanced International Studies Diploma Ceremony is at 3 p.m. this afternoon at Constitution Hall, 18th and D Streets NW, Washington, DC. U.S. Permanent Representative to NATO Ambassador R. Nicholas Burns (SAIS '80) is the speaker. A reception at the Nitze School follows the ceremony.

The Zanvyl Krieger School of Arts and Sciences and The G.W.C. Whiting School of Engineering Undergraduate Diploma Ceremony is at 1:45 p.m. this afternoon on Homewood Field. Actor and comedian William H. "Bill" Cosby Jr. is the speaker.

The Zanvyl Krieger School of Arts and Sciences Master's Diploma Ceremony is at 5:30 p.m. on Friday, May 21, on Homewood Field. James B. Knapp Dean Daniel H. Weiss is the speaker. A reception follows immediately in the Robert Scott Gymnasium, Ralph S. O'Connor Recreation Center. Ph.D. recipients from Arts and Sciences and their guests are also welcome.

The School of Medicine Diploma Ceremony is at 7:30 p.m. this evening at Meyerhoff Symphony Hall at Cathedral and Preston Streets in Baltimore. The Alfred Blalock University Distinguished Service Professor of Surgery Dr. John Cameron is the speaker.

The School of Nursing Diploma Ceremony is at 1:45 p.m. this afternoon in Shriver Hall Auditorium, Homewood campus. Dr. May L. Wynkle, dean, Frances Payne Bolton School of Nursing, Case Western Reserve University, is the speaker.

The Peabody Institute Diploma Ceremony is at 8 p.m. this evening in Friedberg Hall at the Institute. Composer John Corigliano, who will receive the George Peabody Medal for Outstanding Contributions to Music in America, is the speaker.

The School of Professional Studies in Business and Education Undergraduate and Graduate Diploma Ceremony is at 7:30 p.m. this evening on Homewood Field. WYPR-FM's Marc Steiner is the speaker. A reception follows in the Ralph S. O'Connor Recreation Center immediately after the ceremony.

The Bloomberg School of Public Health Diploma Ceremony was held yesterday afternoon.

The G.W.C. Whiting School of Engineering Graduate Diploma Ceremony was held yesterday evening.



THE JOHNS HOPKINS SOCIETY OF SCHOLARS

The Society of Scholars was created on the recommendation of former president Milton S. Eisenhower and approved by the University Board of Trustees on May 1, 1967. The society—the first of its kind in the nation—inducts former postdoctoral fellows and junior or visiting faculty at Johns Hopkins who have gained marked distinction in their fields of physical, biological, medical, social, or engineering sciences or in the humanities and for whom at least five years have elapsed since their last Hopkins affiliation. The Committee of the Johns Hopkins Society of Scholars, whose members are equally distributed among the academic divisions, elects the scholars from the candidates nominated by the academic divisions that have programs for postdoctoral fellows. The scholars are invested at the time of Commencement, Commemoration Day, or a similar occasion. At that time they are presented with a diploma and a medallion on a black and gold ribbon to be worn with their academic robe.

There are currently 460 members in the Johns Hopkins Society of Scholars.

The following listing of the Society of Scholars members elected in 2004 is accompanied by a short description of their accomplishments at the time of their election to the society.

Lukas P. Baumgartner Lausanne, Switzerland

Known for multidisciplinary work, Lukas Baumgartner has developed a new way to apply transport theory to problems associated with mineral crystallization and rock alteration. His findings have been used to understand the development of mountain belts, such as the Alps and the Andes, and the formation of sedimentary, metamorphic and igneous rocks. He is currently director of the Institute of Mineralogy and Petrology at the University of Lausanne in Switzerland. Awards recognizing his outstanding achievements include the Paul Niggli Medal of the Swiss Mineralogical Petrological Society and the Mineralogical Society of America Award.

Vann Bennett

Durham, North Carolina

Best known for his discovery and characterization of the ankyrins, Dr. Bennett has markedly advanced knowledge of how membrane transport proteins are precisely localized in cell membrane domains. This work has brought Dr. Bennett wide recognition as a basic cell biologist and as a pioneer elucidating the molecular basis of human diseases. His work most recently pinpointed the genetic mechanism for an inherited form of cardiac Long QT syndrome, a deadly heart problem that strikes seemingly healthy young people. Dr. Bennett is currently the James B. Duke Professor of biology, biochemistry and neuroscience at Duke University Medical Center.

Douglas F. Covey St. Louis, Missouri

Dr. Covey has made several significant contributions to the field of pharmacology. By synthesizing one of the first potent and selective aromatase inhibitors for applications in breast cancer, he laid the foundation for the development of a class of clinically valuable therapeutics for the condition. He has also designed and synthesized a variety of steroids that have demonstrated great utility in the functional analysis of interactions between the nervous system and the endocrine glands, as well as the pathways of cell signaling.

J. Richard Gaintner Gainesville, Florida

Dr. Gaintner's has been a truly remarkable career. He has been instrumental in the shaping of academic medical centers in this country. His administrative skill has benefited a number of medical institutions. Following his departure from the University of Connecticut, he returned to Johns Hopkins, where he strengthened the relationship between the Hospital and the School of Medicine. Two years later, he joined Albany Medical College as president and CEO, then moved on to Harvard-affiliated Deaconess Hospital in Boston, where he again served as president and CEO. After serving as CEO of Shands Hospital at the University of Florida for four years, he went into a brief retirement but returned to the medical field as executive vice president for health sciences at Georgetown. Illness forced him to end his illustrious career in 2002.

Pascal J. Goldschmidt Durbam, North Carolina

Dr. Goldschmidt is widely considered one of the leading physician-scientists in the nation in the field of cardiovascular medicine. As a researcher, he discovered a now well-recognized platelet receptor polymorphism, a significant factor in heart attacks. He also uncovered several cellular pathways that cause human disease. He has also served as director of the Henry Ciccarone Center for the Prevention of Heart Disease, the Thrombosis Center and the Bernard Vascular Biology Laboratory. After winning numerous prestigious awards, Goldschmidt was recruited to direct Ohio State University's Heart and Lung Institute. In 2000, he was recruited to head the internationally recognized cardiology program at Duke University. In 2003, he was selected to become chairman of the Duke Department of Medicine

David S. Guzick

Rochester, New York

Dr. Guzick, a national and international leader in the field of reproductive endocrinology, has been internationally recognized as an expert in the epidemiology, pathogenesis and management of endometriosis and polycystic ovary syndrome among infertile women. He is currently both the principal investigator of the K12 Women's Reproductive Health Research Career Center and dean of the School of Medicine and Dentistry at the University of Rochester Medical Center. He has published more than 100 articles, demonstrating his thorough expertise in the fields of obstetrics and gynecology, infertility and reproductive endocrinology.

Steven A. Leibel New York, New York

Dr. Leibel has been a pioneer in the development and clinical application of new radiation therapy techniques in the treatment of malignant brain tumors, as well as other pioneering clinical treatments. His efforts have transformed the way that radiation is used to manage patients with prostate cancer. In addition to his research breakthroughs, Dr. Leibel has trained some of the best young leaders in the field. His many honors include winning the 2002 Gold Medal of the American Society for Therapeutic Radiology and Oncology, the society's highest award. He is currently chair of the Department of Radiation Oncology at Memorial-Sloan Kettering Cancer Center.

R. John Leigh Cleveland, Ohio

John Leigh has built an outstanding program in the study of eye movements at Case Western Reserve University in the Neurology and Biomedical Engineering departments. He has inquired deeply into the relationship between vision and balance. He has written the definitive textbook on the neurology of eye movements. Clinical applications of Dr. Leigh's research have been published in *Neurology* and *Ophthalmology* and the best basic science journals. He holds an endowed chair at Case Western Reserve and was named the Annual Visiting "Brain" Scholar at Imperial College, London, for 2003. His contributions span basic science, clinical science and clinical practice.

Sverre O. Lie

Oslo, Norway

Dr. Lie has had a long and distinguished career at the National Hospital of Norway, where he has been in the departments of Pediatrics and Pediatric Research since 1967. He has developed pioneering diagnoses and treatments for pediatric cancer and is the lead author on an 18-year study of the treatment of leukemia in children. In the late 1990s, he oversaw the design and construction of a modern children's hospital in Oslo. His honors include membership in the Norwegian Academy of Science, honorary fellowship in the Royal College of Pediatrics and Child Health in Great Britain and a knighthood (Order of St. Olav) bestowed by the king of Norway.

Nubia Muñoz Lyon, France

Dr. Muñoz' work at the International Agency for Research on Cancer in Lyon, France, and with teams across the world led to establishing the relationship between the human papillomavirus and cervical cancers. This recognition of a viral cause of cervical cancer has led to the development of vaccines that would prevent these infections and that hold promise for the control and possible elimination of this cancer.

Suzanne Ostrand-Rosenberg Baltimore, Maryland

Dr. Ostrand-Rosenberg's career has been a model of scholarship. She has achieved a fruitful balance between excellence in research and clarity and quality in teaching. She has made major contributions to the direction of tumor immunology, and has developed relevant animal models for translating her research into the clinical area. In addition, she has made a major commitment to teaching and mentoring students in her field. Dr. Ostrand-Rosenberg presently holds the Robert and Jane Meyerhoff Chair of Biochemistry at the University of Maryland, Baltimore County.

Alan Pestronk St. Louis, Missouri

Dr. Pestronk's research involves a wide variety of autoimmune and genetic diseases of nerves and muscles. His findings have led to improved diagnosis as well as treatment of these diseases. At Johns Hopkins, Dr. Pestronk collaborated closely with Dr. Daniel B. Drachman and Dr. John Griffin. He played a key role in elucidating the best understood human autoimmune disease, myasthenia gravis. In addition, he studied factors that determined nerve regeneration. His work here shaped the course of his career, which focuses on the immunological basis of neurological disorders. A professor in the departments of Neurology and Pathology at Washington University in St. Louis School of Medicine, Dr. Pestronk also created the most widely used Internet textbook of Neurology, which is used by more than 2,000 people each day.

John M. Peters Los Angeles, California

Since completing his medical internship at Johns Hopkins, Dr. Peters has dedicated nearly 40 years to studying the effects of the environment on respiratory health, from the effects of second-hand smoke to the causes of childhood leukemia. Most recently, he led the Children's Health Study, measuring the impact of air pollution on thousands of children in southern California. The results have led to new regulations for air quality. Dr. Peters is director of the Division of Occupational and Environmental Health at the University of Southern California School of Medicine.

Andrew Weiland New York, New York

Dr. Weiland is an upper extremity surgeon who has made major contributions in the management of patients with traumatic and reconstructive problems. He is especially known for his work in microvascular surgery. His work has significantly improved the care of patients with traumatic amputations and difficult reconstructive problems. In addition, he is a talented educator who has mentored numerous individuals. In addition to clinical and teaching contributions, he has been a superb leader, having made major impacts in many societies, including the American Orthopaedic Association, the American Board of Orthopaedic Surgery and the American Hand Society.

Garen J. Wintemute Sacramento, California

Dr. Wintemute is recognized as one of the nation's foremost scholars addressing violence as a public health problem. *Time* magazine named him a Hero in Medicine, and he is the recipient of many awards from professional and academic societies. In addition to being director of the Violence Prevention Research Program at the University of California, Davis, he is a practicing emergency physician and has served as a consultant for the World Health Organization, U.S. Centers for Disease Control and Prevention and the American Red Cross.

HONORARY DEGREE CITATIONS

Citation read by Daniel H. Weiss In presenting WILLIAM H. COSBY JR. For the Degree of Doctor of Humane Letters

With reality TV dominating prime time, we long for the days when your brand of entertainment ruled the tube.

You first appeared on the *Tonight Show* in 1963, after years spent perfecting your act in front of your first fan, your mother. Soon you were entertaining the rest of us, too, with shows like *I Spy* and the Saturday cartoon *Fat Albert and the Cosby Kids*. There were comedy albums, films, TV specials, and best-sellers. Yours is a particularly keen and compassionate humor, full of riffs on family life and tall tales of grade school pals like Old Weird Harold.

Your gift lies not only in making us laugh, but also in making us feel like we are in on the fun. That was the case with *The Cosby Show*, for which you are best known by the class of 2004. Our graduates grew up with Cliff Huxtable's kids. As our student newspaper put it, they were hooked on the show because they wanted to be a part of the Huxtable family.

You are, however, far more than an extraordinary entertainer. You are a social force, a ground breaker. Both on stage and off, you emphasize achievement and the value of positive role models. You stress that which unites us rather than that which drives us apart. You are untiring in your advocacy for education at all levels, preschool through postgraduate. You are a generous supporter of predominantly black colleges and of many social service and civil rights organizations.

William H. Cosby Jr., entertainer, family man and ardent champion of a better society, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *bonoris causa*.

Citation read by Jessica P. Einborn In presenting RUTH BADER GINSBURG For the Degree of Doctor of Humane Letters

As a young mother, wife, and recent graduate of Columbia Law School, where you tied for first in your class, you came face to face with the 1950s reality of the status of women in America: No law firm would hire you.

That personal experience underscored for you the importance of transforming the widespread attitudes and laws that allowed insidious discrimination against women and minorities. You recognized that deep-seated beliefs about gender roles would not disappear overnight, and that patience and tenacity would be required. In fact, your efforts to overcome gender bias spanned many years. You argued a half-dozen landmark cases before the Supreme Court of the United States, establishing the unconstitutionality of sex-based discrimination. Your commitment, skill, and hard work opened the doors of equal opportunity.

You have also been an outstanding educator and, even before you were appointed to the Supreme Court in 1993, a distinguished jurist. You are only the second woman to serve on the high court, and your tenure there has been widely noted for its independence and integrity.

Ruth Bader Ginsburg, in recognition of your extraordinary contributions to American law, and to the Constitution and the rights it protects, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *bonoris causa*.

Citation read by Daniel H. Weiss In presenting J.G.A. POCOCK For the Degree of Doctor of Humane Letters

You are one of the most important historians of the past several decades. Your many influential works have opened new pathways that other historians have eagerly followed; you also have inspired the work of countless philosophers and political scientists.

Upon your retirement from Johns Hopkins a decade ago, it was said of you, "He is probably one of the most famous members of our faculty." Even more important, it was said, "Professor Pocock has vastly contributed to the sophistication and depth of historical studies, and he has trained an entire generation of scholars."

Your interests span great chronological and geographical distances, from classical Greece and Rome to early modern Europe, as well as to your native New Zealand and the United States. Thematically, your inquiries are every bit as diverse, covering custom, law, and constitution; political and theological thought; republicanism and corruption; and even the history of history itself.

And you have transformed our understanding of every subject you have touched. It has been said, for instance, that you gave us "a new way to understand the thoughts that were alive in the minds of the men who founded the American republic more than 200 years ago."

John Greville Agard Pocock, friend, colleague, and Harry C. Black Chair of History Emeritus, in recognition of your vast and influential scholarship and teaching, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa*.

Citation read by Edward D. Miller Jr. In presenting HAMILTON O. SMITH For the Degree of Doctor of Humane Letters

During a remarkable life in pursuit of knowledge, you have ignited a revolution in genetic engineering and played a key role in assembling the biological blueprint for human life.

Your curiosity and keen intellect were apparent at an early age. Growing up in a Midwestern university community, you and your older brother spent your paper-route earnings to stock a basement lab filled with test tubes, beakers, and radios.

You earned a medical degree at Johns Hopkins, then went elsewhere, but your fascination with DNA and the link between genes and disease brought you back in 1967. In your laboratory, you made the stunning discovery of restriction enzymes—molecular "scissors" that could cut and manipulate DNA. That unlocked the doors of modern molecular biology, releasing a flood of research into new ways to prevent and treat illness. For this, you, along with Johns Hopkins colleague Daniel Nathans and Swiss scientist Werner Arber, received the 1978 Nobel Prize in medicine.

Your curiosity pushed you to explore further scientific frontiers, including the use of computers to help decode the genetic foundation of living organisms. You played a leading role in sequencing the human genome, a landmark project completed, appropriately enough, in the year 2000.

Notably, you have scaled these career heights and endeared yourself to colleagues with a quiet, selfeffacing personality.

Hamilton O. Smith, friend, alumnus, and colleague, for your distinguished lifelong contributions to science and biomedical research, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *bonoris causa*.

THE UNIVERSITY MACE

The University Mace carried by the Chief Marshal, Dr. Bruce B. Parrott, was first used at the 1954 Commemoration Day Ceremony. Eight symbols are hand-wrought in sterling silver on an ebony staff. The symbols represent our cultural development from ancient times, through the Middle Ages and the Renaissance, to the modern era.

THE PRESIDENTIAL INSIGNIA

University President William R. Brody is wearing the Presidential Insignia signifying the authority vested in the President by the Board of Trustees. It is a chain of sterling silver links worn around the neck. Portraits of Johns Hopkins University Presidents are engraved on the faces of the links. On the reverse are engraved the names and dates of office of each President. Blank links for future use are included. The University Seal completes the design.

ACADEMIC GARB

The custom of wearing academic dress stems from the Middle Ages, when scholars were also clerics and wore the costume of their monastic order. The hood was originally a cowl attached to the gown, which could be slipped over the head for warmth. The cap was originally round but has changed to the varieties we see today.

The gown varies for the respective degrees. The Bachelor's gown is worn closed and can be distinguished by its long, pointed sleeves. The Master's gown is designed to be open with the arms placed through the slits at the elbows of the sleeves. The Doctor's gown, also worn open, has full, bell-shaped sleeves with three horizontal bars stitched across the upper sleeve. There is a velvet panel draped around the neck and stitched down the front edges. This velvet trimming may be either black or the same color as the velvet border of the hood.

The hood also varies for the respective degrees. The Bachelor's and Master's hoods are the same design, pointed at the base. The Bachelor's hood is three feet long; the Master's hood is three and one-half feet long. The Doctor's hood is four feet long, of fuller shape, and rounded at the base. The hood is bordered with velvet, the color of which indicates the field of study in which the Bachelor's, Master's, or Doctor's degree was earned:

Dark blue—Philosophy Light blue—Education Green—Medicine Salmon pink—Public Health Orange—Engineering Gold-yellow—Science White—Arts and Letters Pink—Music Purple—Law Apricot—Nursing Tan—Business The silk lining of the hood represents the institution which granted the degree. If more than one degree is held, the gown and hood of the higher or highest degree is worn. The Johns Hopkins University has adopted an alternative costume to be used by all holding Johns Hopkins doctoral degrees, both earned and honorary. The costume consists of a gold robe with front and side panels in sable velvet and a six-sided Dutch academic cap with gold sweatband and tassel. The linings seen in today's academic procession may include:

Black, old gold-*Johns Hopkins University* Light blue, white—Columbia University Dark blue—Yale University Light blue, white-University of North Carolina Gold, blue-University of California at Berkeley Purple-New York University Bright red-University of Wisconsin at Madison Maroon—University of Chicago Red, white—Cornell University Cardinal-Stanford University Cardinal red and gray-Massachusetts Institute of Technology Gold, blue-University of Michigan Blue, gold—University of Rochester Brown, red—Brown University Blue, white-Howard University School of Divinity Red, white-Indiana University Red, black-Northeastern University

Red, gray-Ohio State University Orange, black-Princeton University Red—Rutgers University White, red—*Temple University* Gold, blue-University of California at Los Angeles Light blue, navy blue-Union Institute Gold, blue-United States International University Gold, gray-University of Colorado Orange, white-University of Manchester Red—University of Maryland Silver, red—University of New Mexico Dark red, white-University of Oklahoma Red, blue-University of Pennsylvania Black, red, yellow-University of Psaderborn Blue, gold-University of Toledo Gold, black-Vanderbilt University Gold-West Virginia University

The University Motto

Veritas vos liberabit. The truth shall make you free. -St. John 8:32

AWARDS

Schools of Arts and Sciences, Engineering, Nursing, Medicine and The Peabody * Conservatory of Music

LOUIS SUDLER PRIZE IN THE ARTS For excellence in the creative arts Jointly awarded to *Claire Jeong Julia Wn*

The Zanvyl Krieger School of Arts and Sciences and The G.W.C. Whiting School of Engineering

THE ABELL FOUNDATION AWARD IN URBAN POLICY Presented annually to the Johns Hopkins student who authors the most compelling paper on a pressing problem facing the city of Baltimore. Awarded to *Rachel Tobie Brash*

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS AWARD for Scholastic Achievement (AIChE) Awarded to *Stephanie Piecewicz*

AMERICAN SOCIETY OF MECHANICAL ENGINEERING AWARD In recognition of outstanding efforts and accomplishments on behalf of the J.H.U. A.S.M.E. Student Chapter Awarded to *Stephen Edwards*

APPLIED MATHEMATICS AND STATISTICS AWARD for Achievement Jointly awarded to *Ebba Kristina Boude Grant F. Roche Thomas Sharley* APPLIED MATHEMATICS AND STATISTICS AWARD FOR EXCELLENCE IN TEACHING For outstanding teaching performance by a student in the Applied Mathematics and Statistics Department during the year 2003–2004 Jointly awarded to *Beryl Elizabeth Castello Takebiko Nakama*

ROBERTO R. ARELLANO AWARD For excellence in writing by a Writing Seminars undergraduate Awarded to *Loren Matthew Dunn*

LOUIS AZRAEL FELLOWSHIP IN COMMUNICATIONS For demonstrated excellence in a field of mass communications Jointly awarded to *Aron Benjamiu Davidowitz Shruthi Mathur Eric A. Ridge*

BIOMEDICAL ENGINEERING DISTINGUISHED SERVICE AWARD For outstanding service to the academic community Jointly awarded to Shikha Mishra Anand Veeravaga

JAMES F. BELL AWARD Presented by K.T. Ramesh for outstanding undergraduate research and scholarly achievement in Mechanical Engineering Awarded to *Landou Shawn Uuniuayar*

LUCIEN BRUSH AWARD FOR EXCELLENCE IN ENVIRONMENTAL ENGINEERING For outstanding academic achievement in Environmental Engineering by a graduating senior Awarded to *Kevin Audrew Philpy* MARY FARRELL CAMERER AWARD For excellence in writing by a Writing Seminars undergraduate Awarded to *Emily Elizabeth Chow*

W.P. CAREY PROGRAM IN ENTREPRENEURSHIP AND MANAGEMENT FACULTY TEACHING EXCELLENCE AWARD Awarded to Professor Lawrence Aronhime

W.P. CAREY PROGRAM IN ENTREPRENEURSHIP AND MANAGEMENT EXCELLENT TEACHING ASSISTANT AWARD Awarded to Matthew Robert McKee

EUGENIO AND PATRICIA CASTILLO AWARD To the best first- or secondyear student in Economics Awarded to *Eric Millis*

CHEMICAL AND BIOMOLECULAR ENGINEERING UNDERGRADUATE RESEARCH AWARD For demonstrated contributions to research in Chemical and Biomolecular Engineering Jointly awarded to *Kelly Jeunifer Davis Michael Panl Gillmeister Stephanie (Hee-Kyoug) Kim*

CIVIL ENGINEERING AWARD For outstanding achievement by a senior in Civil Engineering Awarded to *Audrew Thomas Myers*

JAMES S. COLEMAN AWARD This award was established by the Department of Sociology in 1994, in honor of Dr. James S. Coleman, the first chair of the department. The award is for outstanding academic achievement by a senior majoring in sociology and is presented at graduation Awarded to David Ray Crandall OUTSTANDING DOUBLE MAJOR AWARD FROM THE DEPARTMENT OF COMPUTER SCIENCE For outstanding achievement in combining diverse studies with computer science Jointly awarded to Edmaud Kim Dorsey Audrew Eugene Kim

OUTSTANDING SENIOR AWARD IN COMPUTER SCIENCE To a senior for a demonstrated record of academic excellence, leadership, and service in Computer Science Awarded to *James Ray Zarfoss III*

OUTSTANDING MINOR AWARD FROM THE DEPARTMENT OF COMPUTER SCIENCE For outstanding achievement in combining diverse studies with computer science Awarded to Dauilo Šćepanović

SPECIAL SERVICE AND CONTRIBUTION AWARD IN COMPUTER SCIENCE For outstanding work to benefit Johns Hopkins University and the community Awarded to *Nathaniel Grant Duca*

OUTSTANDING TEACHING AWARD FROM THE DEPARTMENT OF COMPUTER SCIENCE For outstanding performance in assisting with the teaching of Computer Science courses Awarded to Breno Fouseca De Medeiros

PAUL A. C. COOK AWARD To the best all-around Chemical and Biomolecular Engineering student Awarded to *Brian Simpson* ROBERT GEORGE GERSTMYER AWARD For outstanding undergraduate achievement in Mechanical Engineering Jointly awarded to *Alexander Forman* David Garber Golda Yetta Katzoff

G. STANLEY HALL PRIZE For outstanding achievement by an undergraduate in Psychology Awarded to *John Fischer*

BRUCE HAMILTON AWARD To the graduate student in the Department of Economics who has exhibited the best performance in research workshops Awarded to *Nicholas Hill*

MAX HOCHSCHILD FUND The prize is awarded annually to the undergraduate student in Economics who has shown great promise and proficiency in this field. Awarded to *Chang Eun Jung*

JACOB H. HOLLANDER PRIZE For excellence in writing by a Writing Seminars undergraduate Awarded to *Aaron Michael Shulman*

THE THREE ARTS CLUB OF HOMELAND AWARD For excellence in writing by a Writing Seminars undergraduate Awarded to *Natalie Rae Shapero*

WILLIAM H. HUGGINS AWARD For outstanding service and academic achievement by a senior in Electrical and Computer Engineering Jointly awarded to *Russell P Hayden II Kevin T Knott Brett L. Kutscher* RICHARD J. JOHNS AWARD For outstanding academic achievement in Biomedical Engineering Jointly awarded to Nicholas Liv Chang Cher John Issa Xiaoying Carol Koh Danilo Šćepanović Jein Nern Tay Hsiang-Jer Tseng

DONALD E. KERR MEMORIAL MEDAL To the outstanding undergraduate major in Physics and Astronomy Jointly awarded to Sondra L. Hellstrom Heather Ann Knutson Paul Samuel Nerenberg

THE MARTIN AND MARY KILPATRICK PRIZE For outstanding achievement in Chemistry Jointly awarded to *Rebecca A. Berlow Zachary A. Gurard-Levin*

THE EUGENE LEAKE AWARD For outstanding achievement in Homewood Art Workshops Jointly awarded to Patricia H. Chan Cassandra Rae Duffy Alexandra Kate Marriette Ferwick Amanda C. Johnson

DANNY LEE AWARD For outstanding undergraduate research in Biomedical Sciences Awarded to *Derek Yang*

ERNEST M. MARKS AWARD In recognition of excellence in instruction and research in Chemistry Jointly awarded to *Vivek Karambelkar Dunja Radisic* MATERIALS SCIENCE AND ENGINEERING AWARD For outstanding academic achievement by a graduating senior in Materials Science and Engineering Awarded to *Jessica E. Bickel*

WILLIAM D. MCELROY AWARD For meritorious research conducted by an undergraduate in the Biological Sciences Awarded to *Amit Navin Vora*

MECHANICAL ENGINEERING SPECIAL PROJECT PRIZE To be presented by Professor Cila Herman for outstanding undergraduate group project Jointly awarded to *Team STILLMix: Henry Mowry Cook III Sara Brooke Marten Michael Brian Sharma Yo-Rhin Rhim*

TEACHING ASSISTANT AWARD FROM THE DEPARTMENT OF MECHANICAL ENGINEERING Awarded to *Daniel Gianola*

EMILY AND THOMAS MEREN SCHOLAR AWARD Established in 1998 in support of undergraduate students pursuing a BA/MS degree in Neuroscience Jointly awarded to *Christopher Walden Bowers* Jeffrey Chang Inga Gurevich Paul Jin Han Dan Isbihara Quan Lan Jasmine Lew Ajay Mantha Ting Sum Lydia Yee

DISTINGUISHED MILITARY GRADUATE For displaying outstanding qualities of leadership, high moral character, noteworthy academic achievement, and exceptional attitude for military service Jointly awarded to *Nicholas Paul Java* Evan T. Perperis Rimas Antanas Radzius

GEORGE C. MARSHALL LEADERSHIP AWARD Awarded to the most outstanding graduating ROTC cadet who has demonstrated those leadership and scholastic qualities that epitomize the career of General George C. Marshall Awarded to *Nicbolas Paul Java*

PRESIDENT'S SABER The President's Saber is awarded to the ROTC cadet who has made the most significant contribution to the Johns Hopkins University ROTC battalion, and reflects those leadership characteristics required of an Army Officer Awarded to Nicholas Paul Java

JHU PRESIDENT'S TROPHY The President'S Trophy is awarded to the ROTC cadet who has made the most significant contribution to promoting the ROTC program at Johns Hopkins University. Awarded to Andrew Hiram Woods Woodward

U.S. ARMY OFFICER COMMISSION The following students earned a United States Army commission through successful completion of the Army Reserve Officers Training Corps program Jointly awarded to Nicholas Paul Java Laura L. Olzacki Evan T. Perperis Rimas Antanas Radzius Andrew Hiram Woods Woodward Chong K. Yi CHARLES A MILLER AWARD To be presented by Charles A. Miller for outstanding undergraduate achievement Awarded to *Henry Mowry Cook III*

MICHAEL J. MUUSS RESEARCH AWARD From the Computer Science Department for the best application of research to practice Awarded to *Eric Alan Goldlust*

NADDOR PRIZE Jointly awarded to Weina Hon Mau-Kwong George Lam

DAVID S. OLTON AWARD For outstanding achievement in independent research by an undergraduate in Psychology Awarded to *Man-Wing Joanne Tsui*

ROBERT B. POND SR. ACHIEVEMENT AWARD Awarded to the graduating senior in the Department of Materials Science who best exemplifies Robert Ponds' commitment to scholarly and humane values. Awarded to Daniel J. MacNeil

PRESIDENT'S COMMENDATION FOR ACHIEVEMENT IN THE ARTS For outstanding contributions to the arts in the Johns Hopkins community by a graduating senior Awarded to *Annelise Prnitt*

THE CURT P. RICHTER AWARD IN BEHAVIORAL BIOLOGY RESEARCH In recognition of outstanding achievement in the David S. Olton Behavioral Biology Program Awarded to *Janelle Marie Burke* THE SARAH AND ADOLPH ROSEMAN ACHIEVEMENT AWARD In recognition of outstanding accomplishment in Chemistry Awarded to *Anthony Stapon*

SENIOR DESIGN ENGINEERING AWARD In recognition of outstanding contributions to the design and conduct of an independent research project in the Department of Materials Science and Engineering. Awarded to *Sn Jin Kim*

GERARD H. SCHLIMM AWARD For exceptional accomplishment by a student in Civil Engineering Awarded to *Daniel Leone*

SPECIAL SERVICE AWARD FROM THE DEPARTMENT OF CHEMICAL AND BIOMOLECULAR ENGINEERING Awarded to *Nithin Gottam*

JULIAN C. STANLEY AWARD For the undergraduate Psychology major who most closely approximates Dr. Stanley's personal and professional standards of excellence Awarded to *Brandon David Zonker*

DOLORES AUBREY SULLIVAN AWARD IN PUBLIC POLICY Presented annually to the Master of Arts in Public Policy student who best exemplifies Dee's indomitable spirit, unfailing dedication to excellence, and the Institute's mission to bring the best information to bear on public policy problems. Awarded to *Caron Melame Gremont*

J.J. SYLVESTER AWARD For outstanding achievement by a senior in Mathematics Awarded to *Micbael Walsb* ROBERT W. TUCKER AWARD For the most distinguished senior thesis in International Studies Awarded to *Rebecca Marie Nelson*

JULIUS TURNER PRIZE For the most distinguished senior thesis in Political Science Jointly awarded to *Rebecca Bolger Andrew Sammel Kelly*

John Boswell Whitehead Award

For outstanding achievements by an undergraduate in the Department of Electrical and Computer Engineering Jointly awarded to *Russell P. Hayden II Kevin T. Knott Brett L. Kntscher*

LOY WILKINSON AWARD For demonstrated record of academic excellence, leadership, and service in Chemical and Biomolecular Engineering by a graduating senior Awarded to *Kelly Davis*

The Peabody Conservatory of Music

AMERICAN BASSOON COMPANY PRIZE in woodwinds: bassoon Awarded to Andrea Loren Sematoske

CLINTON LEE ARROWOOD PRIZE in woodwinds: flute Awarded to *Anna Rakoczy*

MARIAN B. AND SAMUEL BERNSTEIN MEMORIAL PRIZE in opera Awarded to *Jessica Hanel*

MARTHA AND WM. BILL MEMORIAL PRIZF in woodwinds: clarinet Awarded to Nicholas Mark Homenda THE GEORGE CASTELLE MEMORIAL AWARD in voice Jointly awarded to Natalie Rose Conte Jennifer J. Hobbs Robert Maril Thomas J. McNichols William Farrar Strum Andrea Wiltzins

DOROTHY L. DECOURT PRIZE in organ Jointly awarded to *Panl James Carroll* Simgho Paik

ANTTA ERDMAN AWARD in opera Awarded to *M. Hilary Ryon*

PAULINE FAVIN MEMORIAL AWARD in piano Jointly awarded to Daniela Catherine Bracchi Kristin Nicole Chadderton Rachana Vajjbala

SIDNEY FRIEDBERG PRIZE in chamber music Awarded to *Nicholas Mark Homenda*

RICHARD FRANKO GOLDMAN PRIZE in performance Jointly awarded to *Kimberly Benninger* Danielle Lonise Crumb Scott Power Elliott Laura Martin Noab

LILLIAN GUTMAN MEMORIAL PRIZE in piano Awarded to *Benjamin Jinsoo Kim*

LYNN TAYLOR HEBDEN PRIZF in performance Awarded to *Christopher Eric Hamlen*

SIDNEY JENSEN MEMORIAL PRIZE in woodwinds: clarinet Awarded to *Ira Matthew Berman*

JOSEF KASPAR AWARD in strings: violin Awarded to *Hae-Jeong Han* ROSE MARIE MILLHOLLAND AWARD in piano Awarded to *Jennifer Lynn Jackson*

OLGA VON HARTZ OWENS MEMORIAL PRIZE in strings Awarded to *Christopher Eric Hamlen*

HAROLD RANDOLPH PRIZE in performance Awarded to *Michael Nathaniel Boateng*

RANDOLPH S. ROTHSCHILD Award in composition Awarded to *Panl Edward Nelson*

ALICE & LEARY TAYLOR PRIZE in performance Awarded to *Robert Cameron MacDonald*

FRANCIS M. WENTZ TURNER MEMORIAL PRIZE in piano Awarded to *Snjung Sun*

J.C. VAN HULSTEYN AWARD in strings: violin Jointly awarded to Anrelie S. Banziger John Henry Littlejohn Elizabeth Sarah Mahler Nikkos A. Pittas

ANNIE WENTZ PRIZE in voice Awarded to *Daniel Greene Seigel*

GEORGE WOODHEAD PRIZE in voice, with emphasis on oratorio or church music Jointly awarded to *Elizabeth Ann Healy James Henry Seay III Nakia Sherrie Verner*

The School of Nursing

ACADEMIC EXCELLENCE AWARD To a student whose academic performance has been judged to be outstanding Jointly awarded to Margaret Ann Carpino Sonja Hayden Emerson CHURCH HOME AND HOSPITAL NURSING ALUMNAE AWARD Recognizes a student who best exemplifies a humanistic approach to nursing while integrating the art, science, and spirit of nursing Jointly awarded to *Rebecca Rnth Keltner Susan Renee Umstot*

EMMA JONES BECKWITH CULLEN AWARD In recognition of the highest standards of nursing practice and executive ability Jointly awarded to *Jennifer Brie Rock* Angela Estella Wilkins

ELEANOR WADE CUSTER AWARD To a student who most successfully demonstrates initiative and creativity in improving the health of a community with sensitivity to one's fellow man. Jointly awarded to *Lindsay Marie Heberling Amy Elizabeth Maxted*

BETTY CUTHBERT AWARD To a student who demonstrates outstanding commitment and service to nursing and the University Jointly awarded to *Margnerite L. Baty Tresa Kaur Dnsaj*

SUE K. DONALDSON DISSERTATION AWARD For the outstanding PhD dissertation in the School of Nursing Awarded to *Wendy Patricia Blakely* THE MARY AND GRAINGER MARBURG AWARD In recognition of a student who consistently exhibits outstanding clinical nursing expertise Jointly awarded to *Coartney Jill Edwards Jeanne Marie McCarter*

JOHNS HOPKINS NURSES' ALUMNI ASSOCIATION AWARD Recognizes a student whose leadership ability is combined with clinical competence and an inquiring mind Jointly awarded to *Jennifer Anne Menbennett* Nyree Dawn van Maarseveen

JOHNS HOPKINS NURSES' ALUMNI ASSOCIATION AWARD To a graduate student demonstrating expertise in professional nursing practice and patient-centered health care delivery Jointly awarded to *Allison Marie Mnrter Erica Faye Sonthworth Maryke Louise Van Leenwen Donna Helen Yannsz*

LEADERSHIP AWARD To a graduate nursing student demonstrating outstanding leadership in the field of nursing Awarded to *Terri Jean Holloway-Petty*

ROBERT G. MERRICK AWARD To a student demonstrating outstanding leadership in the field of nursing Jointly awarded to *Katherine Elizabeth Ernst Panl Michael Schwartz*

RUTH DALE OGILBY AWARD In recognition of exceptional academic performance in the master's program Jointly awarded to *Holly Claire Calvert Shannon Rae Micheel Judith Morya Resick* RESEARCH AWARD To a student demonstrating intellectual curiosity and creativity in nursing research Awarded to Megan Kelly O'Brien Gold

EDNA SCHOEN MEMORIAL AWARD To a student demonstrating excellence in clinical practice Jointly awarded to *Conrtney Lynn Anderson Monica Irene Shelley*

SIGMA THETA TAU NU BETA CHAPTER AWARD To a graduate nursing student in recognition of superior academic achievement, creative scholarship, and research Jointly awarded to *Tracy Anne Agee Vinciya Pandian*

SINAI NURSES' ALUMNAE ASSOCIATION OF SINAI HOSPITAL INC. To a student who exhibits enthusiasm, compassion, and a positive approach to problem solving in nursing Jointly awarded to *Sophia Licbenstein-Hill Maureen Patricia McGee*

JOAN SUTTON AWARD To a student demonstrating a strong dedication to professional nursing, clinical excellence, and interdisciplinary practice Jointly awarded to *Megan Alicia Hoffmann Lilly Hamilton Schott*

The School of Professional Studies in Business and Education

BACHELOR OF SCIENCE IN INTERDISCIPLINARY AWARD FOR HUMANITIES Awarded to *Victoria Maboney*

BACHELOR OF SCIENCE IN INTERDISCIPLINARY AWARD IN SOCIAL SCIENCE Awarded to *Ameriga Strache*

DEAN'S AWARD FOR SUSTAINED EXCELLENCE Awarded to Samuel Quarcoo

DELTA SIGMA PI SCHOLARSHIP KEY In the Division of Business and Management for the highest grade point average in the undergraduate programs Awarded to *Shaun Michael Blakeslee*

INFORMATION SYSTEM AWARD Jointly awarded to Mark Gottlieb Mubler Wayne William Wanless

DIVISION OF PUBLIC SAFETY LEADERSHIP AWARD Awarded to *Eric Taron Levenberry*

DIANE TOBIN MEMORIAL AWARD Awarded annually to an outstanding alumna/us in education and to an outstanding student in General Education or the Master of Arts in Teaching program Awarded to Jeanne Marie Dwyer

WALL STREET JOURNAL AWARD In the Division of Business and Management for outstanding scholarship in the undergraduate programs and exceptional promise of future success. Awarded to *Timothy Lee Allgire*

The School of Medicine

THE HENRY STRONG DENISON SCHOLARSHIP The Henry Strong Denison Fund for Medical Research in memory of Henry Strong Denison, M.D., 1908, is used for the specific purpose of aiding in the training for research of young people deemed by the Medical Faculty to be especially gifted for a career in medical investigation Awarded to Michael Joseph Dorsi, 2002–2003 Brenda Aika Shoo, 2002–2003

THE PAUL EHRLICH **RESEARCH AWARDS** The Paul Ehrlich Awards were established to honor Dr. Paul Ehrlich with funding originally granted by Dr. Emmanuel Libman. The awards, which recognize student research contributions, are presented each year at Young Investigators' Day Awarded to José Luis Avalos, 2002–2003 Yib-Ru Fannjiang, 2002-2003 Gyanu Lamichhane, 2003-2004 Sanrabh Saha, 2002–2003 Daniel Ryland Southworth, 2003-2004

THE HAROLD LAMPORT BIOMEDICAL RESEARCH PRIZE The memory of Dr. Harold Lamport, a distinguished investigator, is honored by this prize established by the Lamport Foundation. The prize recognizes research contributions. Awarded to Marissa Ann Blam, 2002–2003

THE MARTIN AND CAROL MACHT RESEARCH AWARD The Martin and Carol Macht Research Award is awarded to a doctoral candidate whose research evidences elegance in science, originality in thought, and creativity in approach. The award was made possible by a donation from the Machts of Cincinnati, Ohio. Martin Macht, who earned his medical degree and doctorate at Hopkins, is a professor of medicine and psychiatry at the University of Cincinnati. Carol Macht holds a doctorate in fine arts and archaeology. Awarded to Sarah May White, 2003-2004

THE FRANK H. NETTER, M.D. MEMORIAL SCHOLARSHIP IN MEDICAL ART The medical illustrator Frank H. Netter, M.D., is known worldwide for his ability to distill complex medical subject matter into clear, effective teaching images. Dr. Netter was not only a skilled draftsman but knowledgeable in anatomy, physiology, and pathology through his medical training. Family and friends established this scholarship to recognize a student in Art as Applied to Medicine that displays a similar balance of medical and scientific knowledge with the artistic skills that he exhibited throughout his career. Winners of this award have excelled in their academic courses; displayed exceptional art expression; and most importantly utilized both resources to create welldesigned and effective didactic illustrations. Awarded to Tiffany 7. Glass, 2003-2004

NOVARITIS AWARD FOR OUTSTANDING COMMUNITY SERVICE

The Novaritis Pharmaceutical Company makes a yearly award to that student in the second year of the School of Medicine who is judged by classmates to have made the greatest contribution to our community. Awarded to *Aimalobi Agnes Abonkhai*, 2001–2002

THE HANS JOAQUIM PROCHASKA RESEARCH AWARD The Hans Joaquim Prochaska Research Award was established in 1998 to honor outstanding discovery by a student in the School of Medicine. Awarded to David Ednardo Barañano, 2002-2003 Venkatesh Locharla Mnrthy, 2000–2001

MICHAEL A. SHANOFF RESEARCH AWARD The award is made annually to a student for significant research contributions in the medical sciences. The award is made possible by a bequest from the family and friends of the late Dr. Michael A. Shanoff, who earned his undergraduate degree and M.D. and Ph.D. degrees from The Johns Hopkins University. Awarded to Joshua Todd Mendell, 2002–2003

THE ALICIA SHOWALTER REYNOLDS RESEARCH AWARD This award was created by the School of Medicine Dean's Office in 1996 to honor the memory of Alicia Showalter Reynolds, a Ph.D. student in the Department of Pharmacology and Molecular Sciences from 1992 until her untimely death in 1996. It is given in recognition of contributions to research undertaken by a Ph.D. candidate in the School of Medicine. Awarded to Joshua D. Groman, 2002–2003 Joseph Wesley Lewcock, 2003–2004

THE METTE STRAND RESEARCH AWARD

The Mette Strand Research Award was established in 1998 as an enduring legacy to graduate education and to honor the contributions to science and education made by Dr. Strand as a professor of pharmacology and molecular sciences from 1977 until her untimely death in 1997. The award is made possible by the generous contributions of her colleagues and friends as a tribute to her contribution to humanity in the quest for a vaccine against schistosomiasis, her unvielding devotion to science, and her role in the training of a generation of graduate students of this institution.

Awarded to *Timothy W. Hefferon, 2003–2004*

THE STUDENT RESEARCH AWARD

The Student Research Award is sponsored by the Association for Academic Surgery and recognizes outstanding research efforts by a senior medical student interested in a surgical career.

Awarded to Jeffrey Hall Kozlow, 2003–2004

NUPUR DINESH THEKDI RESEARCH AWARD This award was established in 2002 to honor the memory of Nupur Dinesh Thekdi, an M.D./Ph.D. student in the School of Medicine from 1996 until his untimely death in 2001. The award was made possible by the generous contributions of his family and friends and is given to honor outstanding research contributions made by a student in the School of Medicine. Awarded to *Jacob Michael Jones*, 2001–2002

THE W. BARRY WOOD STUDENT RESEARCH AWARD The W. Barry Wood Student Research Award recognizes present commitment and future promise in research. Awarded to *Cheryl Patricia Ekkebus*, 2001–2002 Douglas Edward Ramsey, 2001–2002 Michael Kenneth Shindle, 2002–2003

The Bloomberg School of Public Health

J. HOWARD BEARD FELLOWSHIP To an outstanding student pursuing a career in local or state public health work Awarded to *Andrew Shannon*

RUTH B. AND J. DOUGLAS COLMAN SCHOLARSHIP To an outstanding preventive medicine resident Awarded to *Craig Hales*

THE GENERAL PREVENTIVE MEDICINE RESIDENCY ENDOWMENT To an outstanding general preventive medicine resident Awarded to *Aruna Chandran*

THE GLAXOSMITHKLINE PREVENTIVE MEDICINE RESIDENCY SCHOLARSHIP To an outstanding preventive medicine resident Awarded to *Christopher Sullivan* THE HOWARD C. AND JANE R. GOODMAN FUND To an outstanding MPH student Awarded to *Rachel Lapidus*

THE HAROLD AND SYLVIA HALPERT ENDOWMENT FUND To recognize achievement and potential to contribute to the field of mental health Awarded to *Catherine Dormitzer*

THE PAUL A. AND C. ESTHER HARPER AWARD IN POPULATION AND FAMILY HEALTH SCIENCES To a graduating student in Population and Family Health Sciences to recognize academic excellence and achievement Jointly awarded to *Unni Karunakara W. Courtland Robinson Michael Yonas*

THE LILLIAN HISS-ETHEL CROSBY SCHOLARSHIP FUND To an outstanding graduate student with a nursing background Awarded to *Kristin Kuldanek*

THE JOHN C. HUME FUND FOR ACADEMIC EXCELLENCE AND PROMISE IN AN MPH STUDENT To an MPH student with demonstrated academic excellence and professional promise Awarded to Asbwin Anantbakrisbnan

THE MORTON KRAMER FUND FOR THE APPLICATION OF BIOSTATISTICS AND EPIDEMIOLOGY IN RESEARCH ON THE PREVENTION AND CONTROL OF MENTAL DISORDERS To an outstanding doctoral student dedicated to advancing knowledge of the epidemiology and prevention of mental disorders Awarded to Ya-Fen Chan THE MARGARET MERRELL FUND To a Biostatistics doctoral student in recognition of outstanding research Awarded to *Wei-Min Chen*

DAVID PATON SCHOLARSHIP IN PREVENTIVE MEDICINE To an outstanding general preventive medicine resident Awarded to *Daniel Shodell*

THE DAVID LESLIE SWIFT FUND To an outstanding doctoral student in the Division of Environmental Health Engineering Awarded to *James McDevitt*

THE WATT/HANSELL ENDOWMENT To support cross training at the School of Public Health and the School of Medicine Jointly awarded to *Marian Betz Aisba Hugbes Brett Nelson*

The Paul H. Nitze School of Advanced International Studies (SAIS)

WILLIAM C. FOSTER AWARD To a second-year student for sound scholarship and a record of leadership and distinguished service to SAIS exemplary of the high qualities of integrity, loyalty, and ability admired in Mr. Foster. Jointly awarded to *Carrie E. Callaghan Darlene Damm*

CHRISTIAN A. HERTER ACADEMIC AWARD To the member of the secondyear class with the most outstanding record during the first year Awarded to *Katharina Plück*

HONOR SOCIETIES

Phi Beta Kappa

Phi Beta Kappa is the nation's oldest and most prestigious undergraduate honors organization. To gain election students must have excelled in a broad array of undergraduate courses in the arts and sciences offered at one of the 249 colleges and universities in the United States that are sufficiently rigorous and intellectually challenging to shelter a Phi Beta Kappa chapter, which was founded at the College of William and Mary in 1776. The Hopkins chapter was founded in 1895.

FROM THE SENIOR CLASS IN THE ZANVYL KRIEGER SCHOOL OF ARTS AND SCIENCES ELECTED IN 2004

Melody Abedinejad Mary Maratovna Akchurin Rachel Ayne Armentrout Salvatore Nunzio Astorina **Joshua Lewis Avins** Lukasz S. Babiarz Whitney Sara Baron Jason David Beery Sarah Yunlan Berkson Aline Marguerite Bernard Stephanie Marie Bistak Michael Lewis Boucher Rebecca Susan Bulger Anthony Robert Carlino Megan Kathryn Carr Jeff Chang Zainab Shafqat Cheema YouSun Chung David Ray Crandall Sarah Elizabeth Dashiells Christin Lynne Davis Sneha Shailesh Desai Christopher Henri Desir Rajiv Devanagondi Elan Shlomo Diamond Eric Liang Bao Ding Jillian Renee Dungan Loren Matthew Dunn Fei Jamie Dy Andrew D. Fair

Jeffrey Peter Fiorenza John Barrington Fischer Justin Franklin Gainor Ioseph Michael Gentile Emma Dora Gregory Barkha Gurbani Patricia L. Hampson Andrea M. Hwang Kern Kapoor Andrew Samuel Kelly Gail Kim Iared Wilson Klein Olivia Taylor Klose Heather Knutson Susan Michelle Lamb Georgiana Lee Johnson C. Lee Su H. Lee David Asher Leiman David Jay Levine Joselin SuChing Lim Barbara T. Lin Paul Anthony Longo Allen Major Ajay Mantha Emily Kate Mayer Heather LaRue McGee Ioana Luminita Mera David Michael Merrick Carolyn Anne Moss Asad Nawaz Rebecca Marie Nelson Paul S. Nerenberg Daniel Steven Ong Jenny H. Pan Alexis Iiman Pappas Alexander Jungho Park In-Kyu Park Samuel David Permutt Nancy Katharine Picknally Audrey Pinn Annelise Pruitt Rebecca Shea Pyne Madhav Raina-Thapan James Caryl Roberts Christopher P. Said Zachary H. Samalin Mark Edward Shaffer Natalie Rae Shapero Jun Shoji Aaron Michael Shulman Erin Melissa Silverinan Stephen Alex Smyers Emily Stecker

Gregory Lee Stonerock Shahjahan Sultan Teerath Peter Tanpitukpongse ManWing Joanne Tsui Suni Vemula Matthew Lepore Vestal Ionathan Brett Wallach Michael Walsh Pong Jeh Wang Erica Lynn Weiss Meghan Heather Werner Tiffany Davis Whelan Daniel Jacob Winnick Glenn Mitchell Wolfe XiXi Wong Samantha Christina Woo Iulia Wu Fang Xu Derek Yang Ting Sum Lydia Yee

FROM THE SENIOR CLASS IN THE ZANVYL KRIEGER SCHOOL OF ARTS AND SCIENCES ELECTED IN 2003

Trevor Todd Adler Cassandra Rae Duffy Inga Gurevich Daniel David Herr Chang Eun Jung Michelle Helena Moniz Anand Kumar Narayan Nishant Dinesh Patel Wen Shi Amit Navin Vora Brandon David Zonker

FROM THE SENIOR CLASS IN THE ZANVYL KRIEGER SCHOOL OF ARTS AND SCIENCES ELECTED IN 2002

Jennifer Ann Danielsson Jennifer Marie Poti Rachana P. Vajjhala

FROM THE SENIOR CLASS IN THE ZANVYL KRIEGER SCHOOL OF ARTS AND SCIENCES ELECTED IN 2001

Daniel Thomas Davis

FROM THE PH.D. CANDIDATES IN THE ZANVYL KRIEGER SCHOOL OF ARTS AND SCIENCES

Azin Chorbani Nezami

FROM THE PH.D. CANDIDATES IN THE BLOOMBERG SCHOOL OF PUBLIC HEALTH

Weimin Chen Nicole Huang Hirono Ishikawa Marie-Helene Roy-Gagnon

FROM THE PAUL H. NITZE SCHOOL OF ADVANCED INTERNATIONAL STUDIES

Meghana Narsinha Lele

FROM THE M.D. CANDIDATES IN THE SCHOOL OF MEDICINE

Deborah Lynn Cummins Jamie Michelle Rand

FROM THE PII.D. CANDIDATES IN THE SCHOOL OF MEDICINE

José Luis Avalos Yingbei Chen Hanzhang Lu Yan Zhou

Woodrow Wilson Undergraduate Research Fellowship Program

Unique to Johns Hopkins University, the Woodrow Wilson Undergraduate Research Fellowship Program, founded in 1999, offers a select group of undergraduates in the Krieger School of Arts and Sciences the opportunity to explore new avenues of inquiry alongside and with the guidance of scholar-teacher mentors whose own research is at the cutting edge of their disciplines. Selection of Fellows is based on academic merit and the strength of applicants' proposals for independent research. Students have the Fellowship for the entire length of their undergraduate careers.

The following members of the graduating class have been Woodrow Wilson Fellows.

Michael Lewis Boucher Jaqueline Jamie Chan Patricia Hue Chan Rita Yoonhae Choi David Ray Crandall Terry Dean Jr. Melissa Haines Floca Casey Bratton Gibbons Nicole Elana Graham David McKinley Harris Seema Kaura Gail Kim Ho-Young Kim Melody Lao Ioana Luminita Mera Michelle Helena Moniz Andrew Howard Moskowitz Carolyn Anne Moss Jenny H. Pan Sarah Elizabeth Parkinson Samuel David Permutt Annelise Pruitt Matthew Scott Sekerke Wen Shi Erin Melissa Silverman Michael Vidne Amit Navin Vora

XiXi Wong Julia Wu

Tau Beta Pi National Engineering Honor Society

FROM THE SENIOR CLASS IN THE G.W.C. WHITING SCHOOL OF ENGINEERING

Charalambos Jean Anotoniou Ebba Kristina Bonde Julie Lindsey Browne Stefan Christopher Casillo Marvin G. Chang Jonathan Cheponis Henry Mowry Cook III Kelly Jennifer Davis Edmund Kim Dorsey Matthew Scott Durst **James Hamilton Easter** Genevieve Louise Gallagher Michael Paul Gillmeister Eric Goldlust Ying Gu Sondra Lynn Hellstrom Yen Shi Gillian Hoe Elbert Shang Nung Hu Lawrence Huang John B. Issa Eric Benjamin Pierre Jabart Alexander Zen Jow Golda Yetta Katzoff Xiaoying Carol Koh Iris Kuo Brett L. Kutscher Andrew G. Lamperski Etan Jin-Gie Lee Kyong Ae Lee Daniel John MacNeil Candice Traci Mak Steven Andrew Matsumoto Mary Kathleen McDonald Andrew Thomson Myers Evangeline Shimei Ng Jonathan David Packer Erika Ann Peterson Clare Brenna Poynton Roshan Andrew Punnoose Jun-Kyu Rhee Grant Francis Roch Kimberly Ann Rosendorf Michelle Antoinette Saliga Danilo Šćepanović Thomas C. Sharkey Hui S. Son

Bhuvan Srinivasan Christopher Johnathan Szilagyi Jein Nern Tay Seth Alan Townsend Benny I-Chiao Tsai Aimee Inzu Wu

Alpha Omega Alpha Honor Medical Society

The Alpha Chapter of Maryland was established at The Johns Hopkins University School of Medicine in 1906. Medical students with outstanding records are elected to membership in their senior year.

The following members of the graduating class have been elected to membership in Alpha Omega Alpha:

Kristin Whitford Barañano **James Andrew Browne** Melissa Suzanne Camp Alexandra Cappiello Deborah Lynn Cummins Brian Thomas Garibaldi Meg Rebecca Gerstenblith Amy KaLee Henderson Ryan Michael Kretzer Ivy Ann Ku Jennifer Sophie Roberts Mammen Andrew Evan Muck Hari Nathan Jennifer Cohen Price Jamie Michelle Rand Meghan Kathleen Rothenberger Michael Kenneth Shindle Akhilesh Keshav Sista Rebecca Lyn Toonkel Tracy Jennifer Wanner

Delta Omega National Public Health Honor Society

Hanan Jaber Aboumatar Agbessi Amouzou Ashwin N. Ananthakrishnan Yutaka Aoki Hossein Bahrami Julie Anna Bettinger Marian Elizabeth Betz Edmund J. Bini Nikolas Buescher Thomas Peter Cappola Aruna Chandran Anne Barrington Claiborne Marla Lynn Clayman Katherine Anne Close Donna Jean Curtis **Jefferson James Dovle** Altoon S. Dweck Schorr Amy Gartland Egan Amy Adair Ellis Kate E. Fothergill Patricia Ellen Fox Joshua Paul Garoon Kiera Goodman Kerry Michele Green Mark Raymond Hall Farah Haq Katharine Grace Haxall Mark Stevenson Hayden Shannon Louise Henshaw Keri L. Hyde Rachel L. Johnson Caitlin Elizabeth Kennedy Denny Hyun-Guen Kim Jiing-Tang Ko Gregory Michael Lucas David Barrett Martin Elizabeth Anne Martinez James Joseph McDevitt IV Eugene Vincent Millar Mari Nagai Brett Dee Nelson Catherine Starr Nelson Omolara Adewunmi Olaniyan Janus Po Ong Laura Ann Pacha Christina Catherine Pallitto Ryan Hodges Pasternak Maria Jose Perez-Patron Sallie Robey Permar Christopher Baxter Pierce Matthew Warren Pierce Rheanna Edith Platt Jeffrey Louis Pollet Preetha Rajaraman Shubha Vanessa Yvonne Raju Bahie Mary Rassekh Lynda J. Redwood-Campbell Judith Morya Resick Adam Kimball Richards W. Courtland Robinson Joshua Cory Rubin Lewis Rubinson

Milda Renee Saunders Connie Christine Sexton Deborah Michelle Stein Valerie Jean Thompson Michael Allan Yonas Feng Zhao Karen Paul Zimmer

Sigma Theta Tau International Honor Society of Nursing

The following doctoral student is a member of Sigma Theta Tau

Sarah Loeb Szanton

The following graduate students are members of Sigma Theta Tau

Sara Catherine Adelman **Cheryl Dianne Borries** Dorian Gae Frackelton Maria Christina Geronimo Rosa Maria Gonzales Katherine Louise Gundzik Calisha Carol Harmon Terri Jean Holloway-Petty Elizabeth Anne Johnson Mary E. Keller Valencia N. McCree Nailya Muganlinskaya Rene Beth Shumate Amanda Lynn Smith Amanda L. Stefancyk Grace H. Sun Jessica Ann Tesk Katherine Mary Thompson Tina Maria Tolson Jill Michelan Trachta Ida-Marguerite M. Twilley

The following undergraduate students are members of Sigma Theta Tau

Rebecca Lynn Abel Mary Ahn Courtney Lynn Anderson Olga Vladislavovna Baturenko Marguerite L. Baty Kristy Sharon Bennett Michelle Anne Berardi Ruth Anne Beutler Michelle Rayssa Bezos Sharyn Marie Boissevain

Rachael Christina Caputo Margaret Ann Carpino Jace Haylings Chalon Alisha Jane Clinger Kelly Ann Conroy Tanya Melissa Dierksheide Jennifer Anne Donohue Tresa Kaur Dusaj Sonja Hayden Emerson Katherine Elizabeth Ernst Elizabeth Leigh Fricke Stephanie Leigh Gorman Laura Marie Grant Laura Kristin Greene Sara Jean Hallam Lindsay Marie Heberling Rebecca Rae Heck Megan Alicia Hoffmann Alison Marguerite Ivey Dana Jones Rebecca L. Joplin Marcy Joy Kalogiannis Jenny Yen Kang Karen Ann Klima Susan P. Koo Jennifer Marie LaFont Amy Elizabeth Maxted Jeanne Marie McCarter Maureen Patricia McGee Danielle Marie McQuigg Kelly Jessica Meagher Jessica Little Noves Melissa Ann Pasteris Jamie Elizabeth Peterson Amy Melissa Pettler Hilary Cristin Poan Yvonne Elizabeth Raphaelson Sara Ann Rocheford Jennifer Brie Rock Paul Michael Schwartz Shelly Patricia Seaman Monica Irene Shelley Joanne Spafford Melissa Sue Tharnish Christy Sarah Thiessen Courtney Nicole Todd Jessica Brook Tompkins Dannielle Bina Toner Amy Suzanne Turgeon Nyree Dawn van Maarseveen Jennifer Ann Werthman Angela Estella Wilkins Jennifer Colleen Winfree Erin Katlyn Wipff Kathryn Veronica Young

Honor Societies for the School of Professional Studies in Business and Education

Alpha Sigma Lambda Alpha Sigma Lambda is a national honor society for undergraduates in continuing higher education and is dedicated to the advancement of scholarship and leadership. Membership in the Theta Omicron Chapter is open to matriculated undergraduates who have attended the School of Professional Studies in Business and Education for at least four semesters and have completed at least 30 credits in the School of Professional Studies in Business and Education with a 3.2 grade point average.

The following members of the graduating class are members of Alpha Sigma Lambda:

Christine-Marie Gedansky Krieg Matthew Lloyd Mark Gottlieb Muhler Samuel Quansait Quarcoo Regina Maria Saunders Ameriga Strach

Delta Sigma Pi

The Delta Sigma Pi, Chi Chapter, established in 1922, sponsors professional, social, and community service activities, as well as regional and national Delta Sigma Pi conferences. Upon graduation, Delta Sigs may continue their participation through the Baltimore Alumni Chapter, one of the oldest and largest alumni chapters in the country.

The following members of the graduating class are members of Delta Sigma Pi:

Vanessa Laureia Bradley William Russell Clark Jean Tanja Clark

HONORS

General University Honors were determined at the end of March 2004 for students who had achieved a cumulative Johns Hopkins University grade point average of 3.5 or higher. Students earning this honor at the end of the spring 2004 semester will have that notation placed on their final transcripts.

Baccalaureate Candidates Graduating with General Honors

The Zanvyl Krieger School of Arts and Sciences

Melody Abedinejad Trevor Todd Adler Farah Ahmad Katherine Marie Aird Mary M. Akchurin Andaleeb Jahan Alam Eluard M. Alegre Rachel Avne Armentrout Salvatore Nunzio Astorina Whitney Elizabeth Austin Lukasz S. Babiarz Michael Anthony Balazs Whitney Sara Baron Julie Anne Barro Daisy Elizabeth Beatty Jason D. Beery Russell Bradley Berger Sarah Yunlan Berkson Aline Marguerite Bernard Anita Praful Bhansali Stefanie Marie Bistak Heather Lynn Blair Michael Lewis Boucher Christopher Walden Bowers Alexandra Mari Bubb Rebecca Susan Bulger Anthony Robert Carlino Megan Kathryn Carr Catherine Jing Yi Carroll Jacqueline Jamie Chan Patricia Hue Chan Howard Kai-hao Chang Jeffrey Chang William Tung Chang Zainab Shafqat Cheema

Grace Kwon May Cheng Amy Beth Chernuchin Ellen Jaehee Chung Yousun Chung Brendan Patrick Costigan David Ray Crandall Sarah Elizabeth Crawford Brenda Leigh D'Ambrisi Amy Elisabeth Daniels Jennifer Ann Danielsson Sarah Elizabeth Dashiells Christin Lynne Davis Daniel Thomas Davis Sara Elisa Dav Sneha Shailesh Desai Christopher H. Desir Rajiv Devanagondi Elan Shlomo Diamond Ioshua Scott Dickstein Michael Anthony Diliberti Eric Liang Bao Ding Michelle Elizabeth Doll Crystal Leigh Doyle Gehaan Franklin D'Souza Cassandra Rae Duffy Jillian Renée Dungan Loren Matthew Dunn Fei Jamie Dy Austen Conrad Endersby Austin Ridgely Evers Andrew David Fair Jennifer Marie Farrelly Alexandra Kate Mariette Fenwick Ryan M. Finley Brandi Nicole Fluent Katherine Marie Fox Marie Kav Fukudome Brad Edward Fuller Milind Satish Gadgil Justin Franklin Gainor Joseph Michael Gentile Michael Alan Gilger Devra Michelle Goldberg Ciara Joy Goldstein Leah Stephanie Greenfield Emma Dora Gregory Jonathan Bernard Groce Ankush Gupta Barkha Naren Gurbani Inga Gurevich Abeba Emnetu Habtemariam Anne Heaton Halverson Patricia Louise Hampson

Paul Iin Han Barrie Jessica Hardymon Daniel David Herr Hanh My Ho David Ioon Hur Hadi Husain Andrea Michelle Hwang Ji-Young Hwang Dan Ishihara Nicholas Paul Java Chang Eun Jung Sung-woo Kang Kern Kapoor Ami P. Karnik Tracy Ann Kaufman Andrew Samuel Kelly Lvnda Ken Andleeb Khan Gail Kim Ho-Young Kim Na Mee Kim SungTae Kim Matthew David Klaiber Jared Wilson Klein Olivia Taylor Klose Heather Ann Knutson Eliz Konat Alexis Kruczek Rohan Rajiv Lall Susan Michelle Lamb Jung Eun Lee Lok-sye Georgiana Lee Su H. Lee Jason D. Lehman David Asher Leiman David Jay Levine Quan Lan Jasmine Lew Silvia Sze-Wai Li Paul Michael Sabado Lim Barbara T. Lin Mindy Fung-Lum Lo Cara Elisabeth Loevs Paul A. Longo Kerry Elizabeth Loreto Allen Major On On Man Ajay Mantha Kevin Paul Marquez Teresa Gina Matejovsky Emily Kate Mayer Stephen Andrew McCartney Heather LaRue McGee Allison Grace McNickle Ioana Luminita Mera

Iane Miller Jubeen Moaven Michelle Helena Moniz Robert Michael Morrison Andrew Howard Moskowitz Carolyn Anne Moss Kristen Leigh Mugford Nicholas Muntean Asad Nawaz **Jonas Allan Nelson** Rebecca Marie Nelson Paul Samuel Nerenberg Jonathan Michael Nizar Robert James Oldt III Aaron Howard Ong Daniel Steven Ong Helena Marie Orbach Heather Elizabeth Otto Dave Ashish Pai Hua-Han Pai Jenny H. Pan Alexander Jungho Park In-Kvu Park Sarah Elizabeth Parkinson Nishant Dinesh Patel Nancy Katharine Picknally Audrey Leslie Pinn Scott Linton Pitz Alan Scott Polackwich Jr. Eva Poon Jennifer Marie Poti Annelise Pruitt Rebecca Shea Pyne Mohammed Adil Qureshi Madhav Raina-Thapan Prashanth Sadashiva Rao Kelly Marie Reeves James Caryl Roberts Kyle Stewart Robinson Emilie Katherine Romeiser Daniel Moses Rosenthal Ali Renee Rosof Jennifer Junko Saito Zachary H. Samalin Dilan Buddhika Samarawickrama Adhiraj B. Sarpeshkar Lindsay Morgen Saxe Elizabeth Lynn Schlicher Jason Andrew Schuman Raphael Daniel Schweber-Koren Mark Edward Shaffer Natalie Rae Shapero

Sumit Sharma Elizabeth Nicole Shaw Shanti Kiran Shenoy Wen Shi Aaron Michael Shulman Suzanne Amanda Siefert Erin Melissa Silverman Stephen Aaron Silverman Stephen Alec Smyers **Emily Austin Stecker** Elizabeth Helen Stewart Gregory Lee Stonerock Jr. Jamie Allison Stratton Jason Paul Sulkowski Whitney Alison Sullivan-Lewis Shahjahan Sultan Stephanie Ning Sun Christopher Pascal Tallent Teerath Peter Tanpitukpongse Chad Jacob Tarabolous Matthew Kerson Taylor Rachel Eve Tehrani Phuong Tu Tran Man-wing Joanne Tsui Rachana P. Vajjhala Sunitha Vemula Adriana Michelle Verleysen Matthew Lepore Vestal Michael Vidne Amit Navin Vora Anuja R. Vora Megan Katherine Waitkoff Jonathan Brett Wallach Michael Joseph Walsh Pong-Jeh Wang Heather Bronwyn Warnken Erica Lynn Weiss Meghan Heather Werner Tiffany Davis Whelan Crystal Dawn White Joseph E. White Anastasia Marie Wincorn Daniel Jacob Winnick Glenn Mitchell Wolfe Ir. Eleni Deena Wolfe-Roubatis XiXi Wong Samantha Christina Woo Seung-hyun Woo Iulia Wu Ye-Min Wu Rena Ruiyu Xian Fang Xu Ruyin Xue Derek Yang Ting Sum Lydia Yee Chong Kun Yi Brandon David Zonker

Baccalanreate Condidates Gradnating with General Honors

The G.W.C. Whiting School of Engineering

Dom Acosta Stephen Paul Ajemian Leon Michael Aksman Yoojin Cindy An Liakos Constantinos Ariston Christopher Michael Auyeung Jessica Elaine Bickel Brvan Timothy Brilhart Julie Lindsey Browne Daniel Joseph Callahan Stefan Christopher Casillo Jonathan Cheponis Henry Mowry Cook III Kelly Jennifer Davis Edmund Kim Dorsey Ioshua Evan Dunkelman Matthew Scott Durst James Hamilton Easter III Genevieve Louise Gallagher Michael Paul Gillmeister Eric Alan Goldlust Yehuda Pinchas Graber Josh Robert Greenwald Ying Gu Ryan Christopher Hanley Sondra Lynn Hellstrom John Sotirios Hiotes Yen Shi Gillian Hoe Elbert Shang Nung Hu John Bassam Issa Eric Benjamin Pierre Jabart Alexander Zen Jow Golda Yetta Katzoff Andrew Eugene Kim Seok Chan Kim Xiaoying Carol Koh Brooke Kunpalin Iris Kuo Brett L. Kutscher Andrew George Lamperski Craig Larson Ethan Jin-Gie Lee Kyong Ae Lee Kenneth J. Loh Daniel John MacNeil Candice Traci Mak Steven Andrew Matsunoto Jeffrey Stephen McDonald Andrew Thomson Myers Robert Rushton Nagle Jr.

Ionathan David Packer Erika Ann Peterson David Joseph Ploskonka Roshan Andrew Punnoose Jun-Kyu Rhee Loren Christopher Robinson Kimberly Ann Rosendorf Michelle Antoinette Saliga Danilo Šćepanović Michael Brian Sharma Jonathan Hensgen Sharp Yoolee Shin Jeffrey S. Shouldis Eric Arthur Simone Hui S. Son Daniel Tarbell Swanson Christopher Johnathan Szilagyi Jein Nern Tay Jesse Robert Theiss Seth Alan Townsend Jessica Ivanka Treidl Benny I-Chiao Tsai Hsiang-Jer Tseng Landon Shawn Unninayar Aimee Inzu Wu Michael Ting Yang James Ray Zarfoss III

Baccalanreate Candidates Graduating with Departmental Honors

The Zanvyl Krieger School of Arts and Sciences

Melody Abedinejad, History Trevor Adler, History Lukasz Babiarz, Neuroscience Michael Balazs, Physics Jason D. Beery, International Studies Stephen M. Blank, History Andrea Borchardt, Biology Rebecca Bulger, Political Science Jeff Chang, Neuroscience Amy Chernuchin, Writing Seminars Dennis Chi, Writing Seminars Brenda D'Ambrisi. **Political Science** Sneha Shailesh Desai, Neuroscience Eric Ding, Public Health Studies Crystal Doyle, French and Spanish

Jillian R. Dungan, International Studies Yvonne Y. Feng, Writing Seminars John Fischer, Psychology Melissa Floca, Political Science Leah S. Greenfield, Political Science Emma Dora Gregory, Cognitive Science Barkha Gurbani, Public Health Studies Inga Gurevich, Neuroscience Patricia Hampson, History Hanh M. Ho, Biophysics and History David J. Hur, Biophysics Dan Ishihara, Neuroscience Nicholas Paul Java, International Studies Sung-Woo Kang, Biophysics Ami P. Karnik. International Studies Andrew S. Kelly, Political Science Ho Young Kim, International Studies Olivia Klose, History of Art Heather Knutson, Physics Mark R. Koenig, Political Science Alexis Kruczek, Cognitive Science Rohan Lall, Biology Susan Lamb, Biology Lok-Sye Georgiana Lee, History Quan-Lan Jasmine Lew, Neuroscience Alan Liskov, Political Science Weibin Liu, Biology Kerry E. Loreto, French Anjay Mantha, Neuroscience Teresa Matejovsky, French Jubeen Moaven, Neuroscience Heather LaRue McGee, International Studies Michelle E. Mohr, History Andrew Moskowitz, Writing Seminars Anand Narayan, Biology Asad Nawaz, Biology Rebecca Nelson. International Studies Paul Nerenberg, Physics Jonathon Michael Nizar, Neuroscience Robert J. Oldt, Biophysics Daniel Ong, Biology Heather E. Otto, History

Alexander J. Park, Neuroscience In-Kyu Park, International Studies Samuel Permutt, History Audrey Pinn, Political Science Annelise Pruitt, Writing Seminars Mohammed Adil Oureshi, International Studies Deepthi Reddy, Biophysics Mark E. Riso, Anthropology and Writing Seminars James C. Roberts, Physics Daniel M. Rosenthal, History Ali Rosof, History of Art Adam R. Schenker, Writing Seminars Sumit Sharma, Nenroscience Shin Simon Shoji, International Studies Aaron M. Shulman. Writing Seminars Jason Schuman, International Studies Natalie Rae Shapero, Writing Seminars Sumit Sharma, Computer Science Elizabeth N. Shaw, History of Art Erin Silverman, History Dan Simon, Biology Karen M. Stanley, History Ian P. Stumpf, Political Science Jason Sulkowski, Nenroscience Chad Jacob Taraboulous, Nenroscience Phong Tu Tran, Neuroscience Laura O'Connor Vernikoff, Writing Seminars Matthew Lepore Vestal, Neuroscience Michael Vidne, Physics Amit Vora, Biology Megan K. Waitkoff, Writing Seminars Ionathan B. Wallach, French Michael Walsh, Mathematics and Physics Pong-Jeh Wang, International Studies and Economics Himali M. Weerahandi, Nenroscience Erica L. Weiss, International Studies Tiffany D. Whelan International Studies

Anastasia Wincorn, History of Art and French Daniel Winnick, Economics Glenn Mitchell Wolfe, Chemistry Xixi Wong, Biophysics Seung-Hyun Woo, Biology Ye-Min Wu, International Studies Rena Xian, Biology Derek Yang, Biology Laura Marie Yankowski, International Studies Ting Sum Lydia Yee, Nenroscience Chong Yi, Biology Da David Yu, Economics

* Please note that some students may not be listed as receiving Departmental Honors because this program had to go to press before receiving notification from the departments.

Graduates from the Honors in Biology Degree

Sophia Shakir Wen Shi Jamie Allison Stratton Rena Ruiyu Xian

Graduates from the Humanistic Studies Honors Program

Seung-Hwan Hong Shalini Low-Nam Holly K. Martin Lauren Shevchik

Baccalanreate Candidates Graduating with Departmental Honors

The G.W.C. Whiting School of Engineering

Dom Acosta, Electrical Engineering and Computer Science Yoojin An, Biomedical Engineering Stephen Paul Ajemian, Electrical Engineering

Leon Michael Aksman, Electrical Engineering Yoojin Cindy An, **Biomedical Engineering** Charalambos Jean Antoniou. Computer Science and Applied Mathematics and Statistics Christopher Michael Auyeung, Computer Science Jessica Elaine Bickel, Materials Science and Engineering Ebba Kristina Bonde, Applied Mathematics and Statistics Bryan Timothy Brilhart, Mechanical Engineering Julie Lindsey Browne, Electrical Engineering Daniel Joseph Callahan, **Biomedical Engineering** David Lloyd Carrick, Computer Science Marvin Guinyu Chang, **Biomedical** Engineering Jonathan Cheponis, **Biomedical Engineering** Andrea Marie Colabella, Applied Mathematics and **Statistics** Henry Mowry Cook III, Engineering Mechanics Kelly Jennifer Davis, Chemical Engineering Edmund Kim Dorsey, Computer Science Nathaniel Grant Duca, Computer Science Joshua Evan Dunkelman, Computer Science Matthew Durst, **Biomedical** Engineering James Hamilton Easter III, Electrical Engineering Genevieve Gallagher, **Biomedical Engineering** Michael Paul Gillmeister, Chemical Engineering Eric Alan Goldlust, Applied Mathematics and Statistics Yehuda Pinchas Graber, Electrical Engineering Josh Robert Greenwald, Computer Science Ying Gu, Computer Science Sondra Lynn Hellstrom, Electrical Engineering and Physics

Michael Cate Hilsdale, Computer Science John Sotirios Hiotes. Electrical Engineering and Computer Engineering Lawrence Huang, Biomedical Engineering Yen Shi Hoe, Biomedical Engineering Elber Hu, **Biomedical Engineering** John B. Issa, **Biomedical Engineering** Eric Jabert, **Biomedical Engineering** Alexander Jow, **Biomedical** Engineering Golda Yetta Katzoff, Mechanical Engineering Andrew Eugene Kim, Computer Science Seok Kim, Biomedical Engineering Xiaoying Koh, **Biomedical Engineering** Theodore J. Kramer, Mechanical Engineering Brooke Kunpalin, General Engineering Iris Kuo, Applied Mathematics and Statistics Brett L. Kutscher, Computer Engineering Andrew Lamperski, **Biomedical Engineering** Craig Larson, Computer Science Lok Law, Biomedical Engineering Kalman C. Lee, Computer Science Kyong Lee, **Biomedical Engineering** Adrienne Li, **Biomedical Engineering** Vinson Guangyu Liu, **Computer** Science Candace Mak, **Biomedical Engineering** Steven Andrew Matsumoto, Electrical Engineering Jeffrey Stephen McDonald, Electrical Engineering Mary McDonald, **Biomedical Engineering** Robin Mohapatra, Applied Mathematics and Statistics

Andrew Thomson Myers, Civil Engineering Evangeline Ng, **Biomedical Engineering** Jonathan Packer, **Biomedical Engineering** Erika A. Peterson, Applied Mathematics and Statistics David Joseph Ploskonka, **Computer** Eugineering Clare Poyton, **Biomedical** Engineering Roshan Andrew Punnoose, Computer Engineering Jun-Kyu Rhee, **Biomedical Engineering** Loren Christopher Robinson, Computer Eugineering Grant Francis Roch, Applied Mathematics and Statistics Lauren Dana Rosenblatt, Applied Mathematics and Statistics and Computer Science Kimberly Rosendorf, **Biomedical Engineering** Michelle Antoinette Saliga, Applied Mathematics and **Statistics** Danilo Šćepanović, **Biomedical Engineering** Thomas Christos Sharkey, Applied Mathematics and **Statistics** Michael Brian Sharma, Mechanical Engineering Jeffrey S. Shouldis, Chemical Engineering and Applied Mathematics and Statistics Eric Simone, **Biomedical Engineering** Hui S. Son, Mechanical Engineering Ali Soylu, Computer Science Bhuvan Srinivasan, **Biomedical Engineering** Daniel Tarbell Swanson, Computer Science Christopher Johnathan Szilagyi, Computer Engineering Jein Nern Tay, **Biomedical Engineering** Jesse Robert Theiss, Computer Engineering Seth Townsend, **Biomedical Engineering**

Jessica Ivanka Treidl, *Chemical Engineering* Benny I-Chiao Tsai, *Computer Science* Hsiang-Jer Tseng, *Biomedical Engineering* Landon Shawn Unninayar, *Mechanical Engineering* Andrew Hiram Woods Woodward, *Computer Science* Michael Ting Yang, *Biomedical Engineering* James Ray Zarfoss III, *Computer Science* Jiqing Zhang, *Computer Science* * Place weth that some an durts

* Please note that some students are not listed as receiving Departmental Honors because this program had to go to press before receiving notification from the departments.

Part-Time Engineering Students

Randolph Paul Allen Khaled Khalil Ativeh Marcelo Clemente Barth Vincent Peter Bonifera Michelle Joyce Bou Gregory Ross Brewer Stanley Hoen Brown John Chapman Buell Charity A. Burd Robert Anthony Burnes Marcus Arnold Burrell Tatyana Bushel Brian Joseph Caine Edward E. J. Callahan Xiaoyan Cao Yaakov Y. Chaikin Agnes Pui-yee Chan Patrick Timothy Clancy Paul William Connors David John Crooker Shawn Edward Cuthbertson Laura Elizabeth Danielian Christopher Glen Dattilo Beau Victor Duarte Kevin Thomas Dusch Arthur Eduardovich Felde Ching Fong William Michael Geer Sunil Jacob George Alexander Naphtali Gertsen

Ronald Wilfred Glockner Daniel Goldman David Eugene Gray Eric Michael Greenberg Mahmood N. Hadi Natalie Ellen Hagan Michele Deborah Hammons Michael John Havrilla Kalman Hazins Janet Lynne Hill Arthur William Hinaman Xiang Cynthia Huang Shane Faro Hutton Rena Yount Jacobson Jatin Raichand Jain James Robert Jolly Daniel Merrett Jones Harsh Kalra Christian Fogaing Kammogne Muralidharan Karicheri Brian Patrick Karney Daniel Thomas Kelly Patrick Jean Frannois Kerharo Omar Ali Khan Robert C. Kober Michael Taylor Lamar Ryan Christopher Landy Christopher John Lehman Patrick Alan Lindauer Jing Liu Karen Lake Livingston Jorge Neftali Lugo Joseph Patrick Madden Ted J. Mallo Allen Grant Markson Joshua James Daniel Martin Christopher Mattei Jay Alan Matzko Christopher Robert McDowell Brian James McNamara Timothy Edward Meeks Richard D. Menard Elizabeth D. Miller Jonathan Harold Miller Eric Cleveland Moore Rashad Lydell Moore Ralph Leonard Morgan James L. Murphy Kevin L. Myers Steven Thomas Nassau David A. Nazarek Charles Lloyd Nelson Mark Sean Nesky Danghuy Vu Nguyen James Aaron Nix-Gomez Michael Christopher O'Neill

William C. Orndorff Brian Andrew Oshop Joachim Francis Otero Prasanna Sajeewa Naleen Perera Geo M. Pertea Leighton Oliver Pike Danny Pittas Timothy Scott Plymette Matthew Lee Popelier John David Prive Anshuman Purohit Alan D. Ravitz Edwin Carlos Rivera William Scott Rodney Anthony James Romano Najib Sana Stephen Arthur Schmeiser Jason Eric Schulz Yonason Schwarz Banashree Mitra Seifert Jagat R. Shah Melanie Beth Shames Jill Alexandra Shea Cory Christopher Sheffer Charles L. Shepard Vivint S. Shetty Chester James Silfee **Robert Mitchell Somers** Seth Jesse Summersett Michael Reves Tabernero John B. Thelen Timothy Rodrick Thomas Christopher Andrew Thomson David M. Throckmorton Paul Andreas Tittel H. Ray Tsao Anil Kumar Tummalapalli Stephen Joseph Uurtamo John Patrick Van Hooser Bernadette M. Visintainer Brady S. Volpe Ricky Lee Walton James Hunter Ware Martin Robert Wayne Richard Michael White Peter James Williams David Kwok-Tsam Wong Constance R. Worthington **Irene Yachbes** Steven Paul Yeager

CANDIDATES FOR DEGREES

Bachelors of Science in Applied Mathematics and Statistics

The G.W.C. Whiting School of Engineering

Ebba Kristina Bonde Eric Alan Goldlust Iris Kuo Matthew Thomas Lad Ethan Jin-Gie Lee Ha Lim Robert Rushton Nagle Jr. Erika Ann Peterson Grant Francis Roch Michael John Rozsa Michelle Antoinette Saliga Jason Douglas Shirey

Bachelors of Science in Biomedical Engineering

The G.W.C. Whiting School of Engineering

Kyung Chan Ahn Takintope Akinbiyi Yoojin Cindy An Jonathan Osborne Anderson Daniel Joseph Callahan Erik Chi-Hein Chan Ha Na Chang Marvin Guinyu Chang Melissa I. Chang Shamik Chaudhuri Richard Evan Chen Yan-Ming Grace Cheng Jonathan Cheponis Jamie SinLing Chou Hinglum Choy Charles Grahe Danko Matthew Scott Durst Herbert Russell Frisby III Genevieve Louise Gallagher Christina Kenny Giblin Peter Joseph Goldwine Nithin Reddy Gottam Yen Shi Gillian Hoe William Hsu Elbert Shang Nung Hu Jennie Chia-Yin Huang

Lawrence Huang Hien Huynh Nneka Obi Ibekweh John Bassam Issa Eric Benjamin Pierre Jabart Madhukaran Reddy Jannapureddy Ga-young Jeong Elizabeth Lynn Johnson Katherine Wakefield Johnson Alexander Zen Jow Allen Jeong Keel Hyunjin Kim Seok Chan Kim Xiaoying Carol Koh Matthew Chao-Hwa Kung Andrew George Lamperski Lok Law Kyong Ae Lee Joshua Michael Danza Leven Kristoffer Garling Lewis Iennifer S. Liu Daniel Curt Loeser Frederick Bou-Hsuen Lu Candice Traci Mak Mary Kathleen McDonald Shikha Mishra Neerai Modi Michael Peter Murrell Justin Yang Newberg Evangeline Shimei Ng Isil Oge Hyunmi Oh Jonathan David Packer Grace Ka Ka Pang Clare Brenna Poynton Rahavu Ramli Jun-Kyu Rhee Darren Michael Roblyer Kimberly Ann Rosendorf Katie Marie Ruocco Annys Santoso Danilo Šćepanović Deepti Seshadri Eric Arthur Simone Laura Ann Sprowls Bhuvan Srinivasan Anya Lori Taboas Pisan Tantiviwat Jein Nern Tay Ankit Dinesh Tejani

Howard Chen Teng Gary H. Tong Seth Alan Townsend Hsiang-Jer Tseng Anand Viswanathan Michael Andrew Vu Richard Henry Whitney III Aimee Inzu Wu Michael Ting Yang Tae-Kyung Yun

Bachelors of Science in Chemical Engineering

The G.W.C. Whiting School of Engineering

Hyenju Bae Stefan Christopher Casillo Christopher Leigh Charniak Kelly Jennifer Davis Michael Paul Gillmeister Hee-Kyong Stephanie Kim Thomas Joseph Mansell Brittany Katherine McClure Alex Manuel Nieves Martin Chantan Oh Jay Hoon Park Jeffrey S. Shouldis Anna Chandler Stirgwolt Jessica Ivanka Treidl

Bachelors of Science in Civil Engineering

The G.W.C. Whiting School of Engineering

Liakos Constantinos Ariston Brent Jeremy Bass Ryan Christopher Hanley Sarah Melissa Devin Huntting Daniel J. Leone Kenneth J. Loh Thomas Theodore Lydigsen Jason David Mays Andrew Thomson Myers Erik Frank Philipp Sanford Waldo Phillips Kevin Andrew Philpy Timothy Brooks Ruth Annette Mariah Tardiff

Bachelors of Science in Computer Engineering

The G.W.C. Whiting School of Engineering

Avery Choi Bryan David Eberle Charles John Eddleston Richard Edward Hamilton Justin Howe Kearns Brett L. Kutscher Clevenger Paul Pasarell David Joseph Ploskonka Roshan Andrew Punnoose Loren Christopher Robinson Christopher Johnathan Szilagyi Vinay Singh Thakur Jesse Robert Theiss John Matthew Truelove Glenn Mason Wilson

Bachelors of Science in Computer Science

The G.W.C. Whiting School of Engineering

Christopher Ryan Abidin Christopher Michael Auyeung Gil Benjamin Birman David Lloyd Carrick Soo-Yung Cho Erick Tsai Chuang David Siu-Wai Chui Edmund Kim Dorsey Nathaniel Grant Duca Joshua Evan Dunkelman Josh Robert Greenwald Ying Gu Simon Ham Io Hanafusa Michael Cate Hilsdale Fletcher Carl Thomas Hirtle Joseph Yuan-Chi Hsu Li-Chung Hu Andrew Eugene Kim Craig Larson Marc David Lassin David Jinyong Lee Kalman C. Lee Ionathan Lin

The appearance of a name in this section of the program is not considered conclusive evidence of graduation, nor is the omission of a name evidence that a degree was not awarded.

Vinson Guangyu Liu Lukasz Andrzej Majewski Leonard Chinedum Onviah Dylan J. Plotts Lauren Dana Rosenblatt Roger Singh Sahi Monika Anne Schaeffer John Francis Scillieri Yoolee Shin William Emerison Six Ali Sovlu Daniel Tarbell Swanson Benny I-Chiao Tsai Joseph Russell West Matthew Carl Wolf Matthew Chen Yang Rudy Kip Yukich James Ray Zarfoss III Jiqing Zhang

Bachelors of Science in Electrical Engineering

The G.W.C. Whiting School of Engineering

Dom Acosta Stephen Paul Ajemian Leon Michael Aksman Julie Lindsey Browne James Hamilton Easter III Coleman McCourt Flanagan Jeremy Casey Goldin Yehuda Pinchas Graber Matthew Olivier Hart Sondra Lynn Hellstrom John Sotirios Hiotes Lev Ivan Gabriel Iwashko Jeffrey Allen Johnson Hideki James Kinoshita Michael Willem Kruger Dennis Chian Ling Mark William Lowman Ana Natalia Lovola Rebecca Elizabeth Lund Brian Patrick Mason Steven Andrew Matsumoto Jeffrey Stephen McDonald Matthew Robert McKee Robin Ray Mohapatra Agatha Virginia Monzon Scot Robert Myhr John Paul O'Hara Michael Clay Poston

Michael Anthony Sciscenti Isra Sunhachawi Usman Zaheer

Bachelors of Science in Engineering Mechanics

The G.W.C. Whiting School of Engineering

Henry Mowry Cook III Gustavo Arturo Martínez

Bachelors of Science in Engineering Science

The G.W.C. Whiting School of Engineering

John Michael Gallagher

Bachelors of Science in Materials Science and Engineering

The G.W.C. Whiting School of Engineering

Jessica Elaine Bickel Gary Cabatingan Catig Sheila Dickson Thomas Michael Digliani Daniel John MacNeil Reena Ravi Elita Leanne Walker

Bachelors of Science in Mathematical Sciences and Engineering

The G.W.C. Whiting School of Engineering

Irene Ali Kerem Celikel Andréa Marie Colabella Benjamin Adam Kibel Henry Hyuck Paik Thomas Christos Sharkey

Bachelors of Science in Mechanical Engineering

The G.W.C. Whiting School of Engineering

David Vincent Albright Bryan Timothy Brilhart Oliver Watson Buccicone Rachel Elizabeth Callaway Michelle Natalie Clarke Michael Luther Comeau Robert Miles Curry Patrick Brian Danaher Steven Alfred Edwards Alea Anne German Brent Fairs Golden Daniel Colin Hake Gautam Rajnikant Jadhav Golda Yetta Katzoff Theodore I. Kramer Rvan Daniel Lavender Sara Brooke Marten Robert Jeffrey Myers Christopher James Pawlowski Benjamin Graham Purdy Mohammad Omar Ramadan Eric Daniel Romanczyk Michael Brian Sharma Hui S. Son Danielle Caitlin Soya David Lynn Sparks Jr. Aaron Matlack Stackhouse Dat Truong Brian Paul Tursi Landon Shawn Unninayar

Bachelors of Arts

The G.W.C. Whiting School of Engineering

Sung Soo Kim Brooke Kunpalin Rimas Antanas Radzius Garrett William Sussman

Bachelors of Arts in Biomedical Engineering

The G.W.C. Whiting School of Engineering

Amy Zhi Hui Goh Kevin Clifford Whittington Frederick Chengtin Yeh

Bachelors of Arts in Computer Science

The G.W.C. Whiting School of Engineering

Charalambos Jean Antoniou Raj Kumar Chopra Jr. Mustafa Deliveli Andrew Tuan Do Joseph Frederick Keiser Oguzhan Özden Jinyoung Shin Scott James Spencer Andrew Hiram Woods Woodward

Bachelors of Arts in Geography The G.W.C. Whiting School of Engineering

David Matthew Strathy

Bachelors of Arts in Mathematical Sciences

The G.W.C. Whiting School of Engineering

Ilene Christy Sharika Renee Pierre-Louis Charles Kelly Porter

Bachelors of Electrical Engineering

The G.W.C. Whiting School of Engineering

Susan Carol Anderson Monica D. Edelstein Jeremy Brent Stampfly

Bachelors of Mechanical Engineering

The G.W.C. Whiting School of Engineering

Kevin Scott Agan David Patrick Calder James Eugene Daniel Jr. C. Damon Johnson Sharon Kathleen Wilhelm

Bachelors of Science in Molecular and Cellular Biology

The Zanvyl Krieger School of Arts and Sciences

Veronica Graciela Beaudry Andrea Maria Borchardt Janet Kathleen Chang Tristen Taeho Chun Yousun Chung Andrea Marguerite Fennelly Joseph Michael Gentile Alexandra Jimenez Ehab Ahmed Komsan Eliz Konat Rohan Rajiv Lall Susan Michelle Lamb James Lee Weibin Liu Shalini Therèse Low-Nam David Michael Merrick Ishwaria Mohan Asad Nawaz Jennifer Marie Poti Luc Raymond Albert Rougée Dilan Buddhika Samarawickrama Wen Shi Dan Simon Andrew Ryan Turkenkopf Amit Navin Vora Rena Ruiyu Xian Derek Yang

Bachelors of Science in Physics

The Zanvyl Krieger School of Arts and Sciences

Anne Marie Adamczyk Michael Anthony Balazs Matthew James Bouloubasis Karol Grzegorz Gryczynski Heather Ann Knutson Paul Samuel Nerenberg Randall Alan Stover Emanuel Alexandre Strauss Michael Vidne Michael Joseph Walsh

Bachelors of Arts

The Zanvyl Krieger School of Arts and Sciences

Melody Abedinejad James William Abraham Trevor Todd Adler Nisha Agrawal Isaiah Aguilar Farah Ahmad Shamim Ahmed Eric Hyungene Ahn Brittany Leila Ahoor Katherine Marie Aird Mary M. Akchurin Andaleeb Jahan Alam Eluard M. Alegre Uel Joseph Alexis Anna Alexopoulos Lillian Kokunda Alibaruho **Robert Francis Alleman** Lindsay D. Allen Julie Amat y Leon Jessica D. Ambrosetti Kartik Anand Raoul Josef Aponte Robert Kenneth Arena Ir. Atakan Mustafa Ariburnu Rachel Ayne Armentrout Stephanie Miki Arndt Salvatore Nunzio Astorina Whitney Elizabeth Austin Joshua Lewis Avins Lukasz S. Babiarz Kara Simone Bagot Jennifer Ryan Bailey Michelle Baker Thomas John Banks Pamela Dorothy Bannon Adriana Marie Baranello Anne Elizabeth Barber Kate Patricia Barcomb Neil P. Bardhan Shavan Bardhan Matthew Graham Barnes Whitney Sara Baron Julie Anne Barro Katherine Morgan Barth Rudra Dev Barua Emir Baruh Robert Brendan Bates Laura Colleen Bauer Daisy Elizabeth Beatty Jacob Benjamin Becker Katherine Louise Beers Jason D. Beery

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Jeffrey Kranzler Daniel Marcus Kreeger Rachel Krom Alexis Kruczek Jonathan WenHao Kuan John Andrew Kwari Denise Yee Man Kwok Richard Joseph Lamour Melody Lao Stephanie Chi-Ling Lau Thanh Tam Thi Le Justin Ross Leck Johnson Chen-Shing Lee Jung Eun Lee Lok-sye Georgiana Lee Nancy Lee Su H. Lee Yu Lim Lee Jason D. Lehman David Asher Leiman Meghana N. Lele David Jay Levine Quan Lan Jasmine Lew Ariane Kansas Lewis Silvia Sze-Wai Li Philip Lieu Joselin Lim Paul Michael Sabado Lim Ryan Shaun Lim Barbara T. Lin En-Chia Anna Lin Vicky Yi-Chun Lin Alan Harris Liskov Michael William Little Miles Duffy Littlefield Martin Keith Lo Mindy Fung-Lum Lo Cara Elisabeth Loevs Scott Brian Lofgren Kevin Carl Long Stephanie Marie Long Paul A. Longo Kerry Elizabeth Loreto David James Luongo Candy Aguila Magaña Srividya Mahadevan Allen Major Maria Jeanne Malbroux Anjali Malik Shahrukh Malik On On Man Sarah Augusta Mandato Ajay Mantha Kevin Dev Maragh Elizabeth Joy Marave Kevin Paul Marquez

Holly Kathleen Martin Stephanie Anne Martin Lourdes Susana Martinez Neena Ishwari Marupudi Michael Richard Mastrangelo Teresa Gina Matejovsky Emily Kate Mayer Kate Marisa Mazza Geoffrey Martin McCann Stephen Andrew McCartney Joseph Gregory McDermott Heather LaRue McGee John Andrew McGrath Benjamin Mark McKay Allison Grace McNickle Maura Rose McTague Thomas William Meaney Vanessa Abigail Menaged Ioana Luminita Mera Dawn Michelle Merguerian George Wilson Merrell Kian Messkoub Joel Tso-ho Meyer Christopher Kelly Miller Jane Miller Kyle Haigh Miller Lauren Jessica Miller Christina Sunggi Min Jubeen Moaven Michelle Elizabeth Mohr Michelle Helena Moniz Elizabeth Jean Moore Bethany Caroline Morehouse Christopher Brian Moriarty Brian Cornelius Morley Robert Michael Morrison Andrew Howard Moskowitz Carolyn Anne Moss Kristen Leigh Mugford Nicholas Muntean Sonia Rasiklal Nagda Anand Kumar Narayan Daniel Matthew Naturale Ashok Sivaraman Navar Christopher Mark Nelson Jonas Allan Nelson Rebecca Marie Nelson Sasha Naa-Riza Nelson Ilana Neuberger Amy Noel Newell Erina Meemei Ng Yewade Ng John Hoang Nguyen Jonathan Michael Nizar Justin Humphrey Nolan Joe Andrew Nuni

Brian Patrick O'Kelly Robert James Oldt III Laura Lee Olzacki Aaron Howard Ong Daniel Steven Ong Helena Marie Orbach Daniel Patrick O'Reilley Markéta Ornová Wilson Orvis Heather Elizabeth Otto Jin Michael Packard Ryan R. Packard Matthew Un-Beum Paek Dave Ashish Pai Hua-Han Pai Jamie Lee Palaganas Jenny H. Pan Alexis Iiman Pappas Alexander Jungho Park In-Kyu Park Susan Soo Park Sarah Elizabeth Parkinson Pavel James Pasquill **Bijal Javantilal Patel** Nishant Dinesh Patel Heidi Louise Pearce Samuel David Permutt Evan Terry Perperis Carmine Vincent Petrone An Thien Hong Phan Nancy Katharine Picknally Audrey Leslie Pinn Scott Linton Pitz Jamie Lynn Planck John Walter Podurgiel Alan Scott Polackwich Jr. Michelle Anastasia Polley Eva Poon Meera Vrajlal Popat Jonathan Edward Post Frank Anthony Potucek Annelise Pruitt Rebecca Shea Pyne Jun Beom Pyon Michael Patrick Quinn Mohammed Adil Qureshi Samantha Marie Raggi Madhav Raina-Thapan Justin Kazuhiro Rajendra Ivonne Saidé Ramirez Prashanth Sadashiva Rao Deepthi Martha Reddy Sriram Keesara Reddy Kelly Marie Reeves Matthew Robert Righter Dushon DeVere Riley

Mark Edward Riso Andrew Morley Roberts David Craig Roberts James Caryl Roberts Kyle Stewart Robinson Samuel Adam Rogers Emilie Katherine Romeiser April Delacruz Rongero Daniel Moses Rosenthal Ana Lauren Rosner Ali Renee Rosof William Marshall Ross Megan Suzanne Rudinsky Helen Emily Rule Christopher Paul Said Meriem Idris Said Jennifer Junko Saito Ali Altaf Saleem Haneefa Tasleem Saleem Zachary H. Samalin Henry Berval Samson Jessica Noelle Sapienza Adhiraj B. Sarpeshkar Joanna Farem Satkowitz Zachary Nicholas Saxanoff Lindsay Morgen Saxe Adam Robert Schenker Robert Ross Scherr Elizabeth Lynn Schlicher Aaron Michael Schott Jason Andrew Schuman Raphael Daniel Schweber-Koren Samyra Cherrie Sealy Jennifer Anne Segawa Matthew Scott Sekerke Anuradha Gomanthy Seshadri Mark Edward Shaffer Nazia Sabah Shamsuddin Natalie Rae Shapero Sumit Sharma Elizabeth Nicole Shaw Shanti Kiran Shenoy Lauren Michelle Shevchik Eun-woo Esther Shim Jane Jin Yong Shin Shin Simon Shoji Aaron Michael Shulman Feroze Yazdi Sidhwa Suzanne Amanda Siefert Erin Melissa Silverman Stephen Aaron Silverman Timothy A. E. Slack Colin Fitzgerald Slemenda Craig Robert Smith Paul Michael Smith

Christopher Matthew Smolyn Stephen Alec Smyers Shelly Ann Solomon Diane Young Song Junkyong Song Mark Jacob Sorokin Shenita Karol Spencer Sven Thomas Stafford Michael George Stankus Karen Maria Stanley Emily Austin Stecker James Stevenson Katharine Peer Stevenson Elizabeth Helen Stewart Matthew Clavton Stoffel Gregory Lee Stonerock Jr. Benjamin John Stopper David J. Stout Jamie Allison Stratton Christine Michelle Stuart Ian Paul Stumpf Myung Ji Christine Suh Jason Paul Sulkowski Whitney Alison Sullivan-Lewis Shahjahan Sultan Stephanie Ning Sun Hidehiro Takematsu Christopher Pascal Tallent Jennifer Tan Teerath Peter Tanpitukpongse Chad Jacob Tarabolous Matthew Kerson Taylor Michael Jerome Tchorni Rachel Eve Tehrani Kevin Farrell Telford Rebbeca Miriam Tesfai Sadena Thevarajah Oluwakemi Eniola Tomobi Christopher Mario Torsiello Kimberly Linda Townsend Rebecca Lynne Townsend Michael Tuan Tran Phuong Tu Tran Julie Elizabeth Tremaine Man-wing Joanne Tsui Colby James Umbrell Rachana P. Vajjhala Steven Peter Vallone Sara Courtney Ingrid Van Cleef Sunitha Vemula Adriana Michelle Verleysen Laura O'Connor Vernikoff Matthew Lepore Vestal Adria Rita Villar Anand G. Vimalassery Anuja R. Vora

Thuy-Anh Hoang Vu Timothy Robert Wagner Megan Katherine Waitkoff Andrea A. Walker Ionathan Brett Wallach Ryan Christopher Walsh Pong-Jeh Wang Sean Michael Ward Heather Bronwyn Warnken Tanya Shermanda Weekes Himali Menaka Weerahandi Schuyler Klindt Weiner Erica Lynn Weiss Meghan Heather Werner Thomas Wilkins West Tiffany Davis Whelan Crystal Dawn White Joseph E. White Ryan Michael Williams Anastasia Marie Wincorn Daniel Jacob Winnick Marlena Elizabeth Wittelsberger Glenn Mitchell Wolfe Jr. Eleni Deena Wolfe-Roubatis XiXi Wong Samantha Christina Woo Seung-hyun Woo Iulia Wu Kevin Chi-Heng Wu Ye-Min Wu Fang Xu Ruyin Xue Vishal Yajnik Laura Marie Yankowski Ting Sum Lydia Yee **Pomin Yeung** Chong Kun Yi Brian Bomsoon Yim Shamira Jeanine Young Alfred Brian Yu Chung Bin Choi Yu Da David Yu Michael Thomas Yuhaniak Steven Edward Zampieri Maxim Zaporozhski Karen Marie Zeleznock Paige Natasha Zeller Michael Joseph John Zennario Chen Zhao Brandon David Zonker

Performers Certificates

The Peabody Conservatory of Music

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Bachelors of Music

The Peabody Conservatory of Music

Jessica Lauren Alberthal, Viola Eric Beach, Percussion Kimberly Benninger, Horn Jessica Elaine Bickel, Oboe Kevin Lee Biely, Trombone Louisa Catherine Blood, Violin Michael Nathaniel Boateng, Bassoon Rachel Allison Bock, Percussion Daniela Catherine Bracchi, Piano Marla Teresa Bracco, Violin Georgina Constance Cardone, Oboe Paul James Carroll, Organ Megerete Hsi-Han Chang, Piano Wen-Shan Chen, Oboe Kevin P, Clarke, Percussion Natalie Rose Conte, Voice Danielle Louise Crumb, Oboe Lauren Dannelly, Recording Arts and Sciences and Violin Daniel Thomas Davis, Composition Emily Margaret Engle, Horn Hunter Lane Fike, Recorder Erin Malia Firnhaber, Voice Tara Francke, Flute Benjamin Keely Frock, Jazz Trumpet Christopher Joseph Gainey, Composition and Guitar Tao Ge, Trumpet Diana Marie Gibbs, Harp Grant Austin Boyd Gilman, Violin Jonathan P. Greeney, Percussion Christopher Eric Hamlen, Double Bass Rose Mary Hammer, Saxophone Hae-Jeong Han, Violin Timothy Michael Hartman, Recording Arts and Sciences

Clarinet Timothy Yuan-Ting Hsu, Piano Jesse Edward Irons, Violin Marci Michelle Jackson, Horn Laura Jordan, Percussion Benjamin Jinsoo Kim, Piano Jeanette Hyejin Kim, Piano Jiyoung Kim, Violin Marissa Beckley LaBant, Flute Somyoung Lee, Piano SooYeun Lee, Violin Elizabeth Segal Levin, Harp Robert A. Lewis, Saxophone Yuri Liberzon, Guitar Kenneth Hin Joong Lun, Trumpet Michael Hon-Chiu Mak, Composition Benjamin Thomas Mason, Composition James Owen McCain, Saxophone Jeffrey Stephen McDonald, Tuba Lucas Edward Naden, Guitar Paul Edward Nelson, Composition Timothy Charles Nelson, Composition Matthew Nichols, Guitar Jae-shin Noh, Violin Laura Tait Norton, Violin Sungho Paik, Organ Anna Youngsun Park, Violoncello Nikos A. Pittas, Violin Leo Rangel III, Music Education and Saxophone Joung-Hwa Rhee, Violin Elizabeth Anne Robinson, Trumpet David Lee Ruest, Violin Yuko Sato, Percussion Loren Stata, Recording Arts and Sciences Elizabeth H. Stewart, Voice Brian James Thompson, Recording Arts and Sciences Kurt Charles Uttenreither. Guitar and Music Education Rachana Vajjhala, Piano Adam N. Waller, Music Education Kate Weber, Piano Melanie Lynne Zayas, Voice

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The School of Nursing

Bachelors of Science May 20, 2004

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Bachelors of Science July 23, 2004

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Molly A. Sevareid Monica Irene Shelley Amanda Elizabeth Slagle Joanne Spafford Samantha L. Stirling Lauren Ann Stoian Nicole Elizabeth Strauch Melissa Sue Tharnish Christy Sarah Thiessen Courtney Nicole Todd Dannielle Bina Toner Marla Alexandria Turco Susan Renee Umstot Gerry Edward Vergason Sherri Ann Wheeler Kathryn Dorothy Whitchurch Angela Estella Wilkins Deborah L. Williams Stacey Renee Williams Jennifer Colleen Winfree Erin Katlyn Wipff Alysia LoAnn Woods Kathryn Veronica Young

Undergradnate Certificates

The School of Professional Studies in Business and Education

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Bachelors of Science

The School of Professional Studies in Business and Education

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Bachelors of Liberal Arts

The School of Professional Studies in Business and Education

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Gradnate Certificates in Business

The School of Professional Studies in Business and Education

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Graduate Certificates in Education

The School of Professional Studies in Business and Education

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Angelique Renee Arrington, Administration and Supervision Elizabeth Ann Augustin, Administration and Supervision Irene Solavide Bademosi, Administration and Supervision Leticia Eng Barr, Leadership in Technology Integration Dareen Economides Barrios, Education of Students with Severe Disabilities Dareen Economides Barrios, Education of Students with Autism and Other Pervasive Developmental Disorders Kristie Lynn Battista, Administration and Supervisiou Melissa Louise Baxter, Administration and Supervision Nashae M. Bennett, Administration and Supervision Bridget Moira Benzing, Leadership in Technology Integration Bridget Moira Benzing, Administration and Supervision Tanya Lynn Boerger, Education of Students with Autism and Other Pervasive Developmental Disorders Nicole Joslyn Bolton, Gifted Education Nicole Joslyn Bolton, Teacher Leadership Philip Wayne Bonner, Effective Teaching of Reading Robin Lisa Bowden, Administration and Supervision Paula Andrea Canard, Effective Teaching of Reading Noemi H. Carmack, Administration and Supervision Rebekah Victoria Carney, Education of Students with Autism and Other Pervasive Developmental Disorders Victoria Ann Casey, Administration and Supervision Cynthia M. Chambers, Administration and Supervision Aaron Clark Jr., Administration and Supervision Merlene Yvonne Clarke, Differentiated/Inclusive Education: Advanced Methods for Instruction

Merlene Yvonne Clarke, Administration and Supervision Marjorie Strumpf Cohen, Teacher Leadership Marjorie Strumpf Cohen, Gifted Education Deborah Blackwell Colbert, Administration and Supervision Michael Carlos Concepcion, Leadership in Technology Integration Michael Carlos Concepcion, Administration and Supervision Craig Donald Cooper, Administration and Supervision Veda Amelia Cooper, Administration and Supervision Karen Michelle Cross, Education of Students with Autism and Other Pervasive Developmental Disorders Anne Margaret Dardarian, Administration and Supervision Lisa Jean Davis, Administration and Supervision Keisha Monic DeLoatch-Nandalal, English as a Second Language Instruction Maribeth Donohue, Assistive Technology for Communication and Social Interaction Sorava Cinira Dos Santos, Education of Students with Autism and Other Pervasive Developmental Disorders Kristen Reichardt Doyle, Effective Teaching of Reading Jill F. Eidelman, Education of Students with Severe Disabilities Jill F. Eidelman, Education of Students with Autism and Other Pervasive Developmental Disorders Kim L. Eley, Administration and Supervision Dan V. Ferandez, Teaching in Higher Education Krista Renee Fiabane, Gifted Education Siobhan Marie Fitzgerald, Effective Teaching of Reading Megan Rose Fletcher, Education of Students with Autism and Other Pervasive Developmental Disorders

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Donald Richard Longway Maria LoPiccolo George David Low David Henry Lowinger Kristen Elizabeth Luby Lloyd Douglas Lyle Frank V. Maisano William Shannon MacCartee Robert Alan Maggin Jay A. Majer Kevin L. Major Marina Makanova Nauman Malik Sameer Malik Heather Lynn Maring Kenneth Andrew Markle Jewel Knight Marsh Rosalyn Yvonne Marshall Shawn Patrick Martin Neil Scott Maslansky Adnan Masud Michael J. Mathias Emory DeLane McGee Craig Dwayne McKenzie Michele Marie Mehrling Benjamin Christopher Meisner James I. Menapace Houman Mesghali Keith Mfume Matthew Neal Miller Michael Philip Miller Redonda Gail Miller Thomas Raymond Miller Ephrem Minasse Shelley Woodyard Minter Wa Mo Seved Hamid Mohammadi Sandra Katalina Montana Lamont Garnell Morgan John Sembe Morlu II Festo Mpuku Mpundu Christopher Alan Muldowney Lucy Cecilia Mullins Manoj Kumar Nanda Jason Andrew Neiditch Matthew C. Neigh James Harman Nelson Sammantha Elizabeth Neuer Wilson Nhlizivo Gabriella Vanessa Nicastro Neeti P. Nigam Lynne Hurley Norris Rhonda Lynne O'Bannon James B. O'Boyle Robert William Ogburn Brigitte Elise O'Halloran

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Sarpong Mohan Sasthay Mia Ann Scarantino Nancy Schulman Rania B. Selfani Mustapha Sesay William Allen Shaffer Anil K. Sharma Yogesh Sharma Tom T. Shimabukuro Moshe J. Shmuklarsky Susan Carol Shock Kendra Lyn Shurtleff Babita Kalotra Singh Parag Singh Vininder Singh Shivan Sivalingam Christine M. Sloan Kenneth Ramon Smith Robert Fendlay Smith Brandan William Sommerfield Catherine Y. Song Johanna Mara Spangenberg **Joshua Dov Spotts** K. G. Srinivas Peter S. Staats Christopher Allan Stark Carla Steiger Jeffrey S. Steinman Michael Franklyn Stone Elizabeth Talberth Stotz Iason E. Stremmel Keith E. Strohman Gary Richard Sullivan Bing Sun Douglas Matthew Sunshine Iames Peter Suriano Akvile Sweetman Christopher M. Taddei Franklin Russell Tanner Charnette Rosemarie Taylor Gerry Colin Taylor Michael James Taylor Carroll Ann Thomas Sharon Susan Thomas Ronald L. Ticker Goodwin Ting James MacGregor Tisdale Michael Joseph Toner Truett Aaron Tooke Robert Barret Tookey Stephane Fabrice Toscano John Martin Trader Raymond Austria Trajano Seth Shepard Troy Peter Pai-I Tung

Sandra Maureen Turgott Dana Arnold Twible John Dennis Urbach II Joann Urguhart Nwadimma Irene Uzoukwu Robert Daniel Velasco Vincent John Vilasi Alexi Vinogradsky Brian Andrew Wade Elvse Carole Wagner Tracy-Ann Waite Carleton Edward Walker Larry Joseph Wall Nathaniel Lee Walunas Jun Victoria Wang YuQing Wang Chidchom Wasontiwong Virginia Burket Weinknecht Matthew David Wentland Kimberly Ann Wergin Trent L. Wertz Amanda Anne Whittington Albert Russell Wilkerson III Gerald Joseph Wilson Bradley Wayne Wilt Steven Wesley Winn Joy Erin Wiszneauckas Dong Yang Baris Esat Yener **Richard Jonathan Zimet**

Masters of Arts in Teaching

The School of Professional Studies in Business and Education

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Eva Paulette Wortherly Katherine Ann Wotthlie Cheyanne Maree Zahrt Andrew Robert Zapke Nadia Nabeel Ziadi Natale Jean Zimmer

Post-Master's Certificates in Business

The School of Professional Studies in Business and Education

Alberto M. Grosmark, Information and Telecommunication Systems Laurence Alec Himelfarb, Electronic Business David Michael Joyce, Electronic Business Luanne F. Vizzi, Information and Telecommunication Systems

Post-Master's Certificates in Education

The School of Professional Studies in Business and Education

Leslie Ann Benfer, Clinical Community Connseling Patricia Jane Bowdoin-Babbitt, Addictions Connselng Kiran Dixit, Clinical Community Connseling Royce L. Ferguson, Organizational Connseling Rebecca Mary Foster, Clinical Community Connseling Barbara Starr Gleason, Career Connseling Peter J. Goeden, Clinical Community Connseling Debby J. Huie, Clinical Community Counseling Dawn Marie Iannaco, Clinical Community Connseling Mary Elizabeth Serey Johnson, Connseling At-Risk Yonth Ekta Boveja Loomba, Clinical Community Connseling Kelly L. Moran, Clinical Community Connseling

Susanne Bernadette Olsen, Clinical Community Connseling Laura Joy Pennington, Clinical Community Counseling Joyce E. Reimhherr, Career Connseling Mary Rugel Santulli, Spiritual and Existential Connseling and Therapy Patricia Breschi Schlough, Spiritual and Existential Connseling and Therapy Catriona Lynn Schmidt, Clinical Community Connseling Eric Scott Swan, Spiritnal and Existential Connseling and Therapy Tricia Michelle Uppercue, Spiritnal and Existential Connseling and Therapy Anise MaSean Walker, Connseling At-Risk Youth

Certificates of Advanced Graduate Study

The School of Professional Studies in Business and Education

Sheri Anita Lewis, *Connseling* Hollis Charles Neal, *Counseling*

Masters of Science in Nursing

The School of Nursing

Tracy Anne Agee Cheryl Dianne Borries Michael Donald Bumbach Holly Claire Calvert Eva Kai-Fen Chen Nicole Louise Digenan Donna Marie Dorr Tracy Thranhardt Douglas Charia Louise Friend Elina Gofman Carl R. Hankel Agnes H. Ho Terri Jean Holloway-Petty Laura M. Hostovich Jennifer Kay-Berene Klein Shavon Trenice Legette Anna Elisa Madigan

Hayley Diana Mark Shannon Rae Micheel Linda A. Miller Allison Marie Murter Teri Ann Murtha Ann Kathryn Creech Muther Tricia Lynne Oldershaw Vinciya Pandian Hyun Jeong Park Barry Michael Perper Meghan Zee Podliska Annette Marie Rossi Roxanne Rebecca Rovce Lisa Shindle Karie Lynn Siljamaki Erica Faye Southworth Grace H. Sun Marie Elizabeth Swisher Rebekah Sims Trimble Maryke Louise Van Leeuwen Stephanie O'Donnell Wilmer Donna Helen Yanusz Nelli Zafman

Masters of Science in Nursing/Masters of Business Administration

The School of Nursing

Rebecca Ann Brotemarkle Kimberly R. Jordan Wei-Ting Lin Laurie Ann Martinez Modupé Chinyere Oleru Kimberly Reneé Schultz Martha Lynn Sylvia Tara Marie Tehan Lisa Cheatham Williams

Masters of Science in Nursing/Masters of Public Health

The School of Nursing

Rachel Blankstein Breman Anne Marie Caston-Gaa Deirdre Fiona Flowers Keri L. Hyde Stephanie Lynne Judy Melanie M. Michel Judith Morya Resick Elizabeth Ann Richardson Sara Janelle Russell Mina L. Shapiro Annamma Udaya Thomas Jennifer Marie Calip Weil Kristin Ann Weinhauer Christine Anne West

Graduate Performance Diplomas

The Peabody Conservatory of Music

Saar Ahuvia, Piano Jorge Alejandro Amaral Agresti, Gnitar Taylor Scott Armstrong, Voice John William Artz VIII, Voice Aurélie S. Banziger, Violin Aaron Brant, Horn Nabih B. Bulos, Violin Hsin-I Chen, Piano Yi-Ju Chen, Viola Ji-Eun Choi, Piano Victor de Almeida, Viola Magdalena Duhagon, Gnitar Christopher Dennis Dunn, Gnitar Rebecca Gordon, Voice Alisa Marie Grundmann, Voice Jennifer Lynn Jackson, Piano SooKyung Jeong, Viola Yoo-Jin Jeong, Voice Min Jae Kim, Violin Carolyn Chi-an Kuan, Conducting Eun Kyung Lee, Viola da Gamba Iou Won Lee, Piano Yating Lee, Harp John Henry Littlejohn, Violin Carmen Martínez, Violin Christine Tara Maria Kavanagh Miller, Opera Chryssie Nanou, Computer Music/Piano Performance Jin Kyung Park, Piano Jun-Young Park, Violin Soobin Park, Violin Bohuslav Rattay, Conducting Bradley Joel Ross, Voice Brian Theodore Sacawa, Saxopbone Andrea Loren Sematoske, Bassoon Susan Sevier, Voice Joohee Shin, Horm William Farrar Strum, Opera Evelyn Virginia Trester, Voice

Nakia Sherrie Verner, Voice Andrea Wiltzius, Voice Andrew Meade Winn, Gnitar Yi-Ping Yang, Viola Jacob Yoffee, Jazz Saxophone Igor Yuzefovich, Violin

Masters of Music

The Peabody Conservatory of Music

Nozomi Abe, Percussion Saar Ahuvia, Piano Ezekiel Alan Bailey, Gnitar Christopher J. Bassett, Composition Ira Matthew Berman, Clarinet Charles Brian Biondo, Mnsic Education Alyssa Eve Bowlby, Voice Bernadette V. Brennan, Composition Suzanne Toby Bulua, Gnitar Erika Lauren Burns, Viola Brian Christopher Carl, Piano Kristin Nicole Chadderton, Piano/Pedagogy Ho-Yao Chang, Voice Pei-Chun Chen, Horn Ya-Yun Chen, Clarinet Youngjoo Chin, Voice Minsun Choi, Violin Jin Ho Chung, Composition Shannon N. Conley, Piano Zachary Lynn Crockett, Composition Christopher Dennis Dunn, Gnitar Scott Power Elliott, Trombone Mark Kris Emon, Computer Music Research Darlene Enke, Voice Aisha Nicole Farbes-Lyons, Voice Damon Ferrante, Composition Joel Gabriel Frisch, Percussion Hsin-I Alice Fu, Piano Mark D. Gardner, Voice Tyler Hale Goodwin, Double Bass Catherine Marie Green, Voice Robert K. Hamilton, Computer Music Composition Jessica Hanel, Voice Elizabeth Ann Healy, Voice

Julie Christine Hiscox, Voice Jennifer J. Hobbs, Voice Trent A. Hollinger, Composition and Wind Conducting Chih-Jung Hsu, Violin Jonathan Manley Hudson, Voice Angela Sue Old Jones, Music Education Yoojin Jung, Harp Ja Yeon Kang, Piano JeongEun Park Kang, Piano Jae Hyun Kim, Clarinet Taehi Kim, Computer Music Composition Sarah Elizabeth Kuzmak, Music Theory Pedagogy Jill H. Lawson, Piano: Ensemble Arts Lindsay Ann Leach, Piccolo/Flute HeuiSeung Lee, Piano Ok Kyu Lee, Piano Sun Young Lee, Harpsicbord Naomi Lesley, Violin Carey Micah Lewis, Violin James T. Lindsay, Composition Pei-Rong Lo, Piano Jason Robert Lovelace, Composition and Computer Music Composition Chia-Yin Carol Ma, Violin Robert Cameron MacDonald, Gnitar Elizabeth Sarah Mahler, Violin John Michael Malloy, Trampet Cvnthia Ann Marcus, Violin Robert Maril, Voice Sarah Diane Martin, Voice Ilya Mayzus, Computer Music Composition Thomas J. McNichols, Voice Erik Graham Meyer, Organ Laura Martin Noah, Percussion Moon-Joo Park, Flnte Jeremy Edwin Peterson, Trimpet Adam Pettit, Gnitar Michael James Pierre Jr., Guitar Ben Andrew Quine, Piano Cameron Marc Raecke, Viola Anna Rakoczy, Flnte Erin Riley, Voice Douglas Geoffrey Rogers, Guitar/Pedagogy Jeffry Rogers, Gnitar

M. Hilary Ryon, Voice James Henry Seay III, Voice Daniel Greene Seigel, Voice Jasmin Min-Yu Shih, Violoncello Joohee Shin, Horm Asha Srinivasan, Computer Music Composition Sujung Sun, Piano Cathleen Jean Torres, Horn Gina Marie Vanacoro, Voice Yi-Lan Wang, Trombone Anna Katherine Wessler, Flute Andrew Meade Winn, Composition Hee Kyung Yoon, Piano Piotr Adam Zielinski, Gnitar

Masters of Arts

The Peabody Conservatory of Music

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Masters of Science

Bloomberg School of Public Health

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Valerie Brook Waggoner, Health Policy and Management Jian Wang, Biostatistics Hannah Phil Yang, Epidemiology Mei-Fen Yeh, Biostatistics

Masters of Health Science

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and Molecular Biology

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Ming Hsien Lin, Health Policy and Management Shin Lin, Biostatistics Shiow-Wen Liou. Health Policy and Management Chih-Kuang Liu, Health Policy and Management Caroline Afia A. Lomo. Environmental Health Sciences Noreen Malik, Population and Family Health Sciences Morgan Alexander Marks, Epidemiology Janean Elvse Martin, International Health Elizabeth Anne Martinez. **Clinical Investigation** Joseph Matovu, International Health Elizabeth Cotton Matsui, Epidemiology Sheila Anne McCarthy, Environmental Health Sciences Eddy Jose Morales, Biochemistry and Molecular Biology Katrina Lynn Morgan, Health Policy and Management Eric Wassef Nawar, Epidemiology Rahim Shiraz Nazerali, International Health Mya Sapai Ngon, Population and Family Health Sciences Robert Sayoc Nocon, Health Policy and Management Kara Ellen Nygaard, International Health Elizabeth Ann O'Leary, International Health Proma Paul, International Health Wendy D. Pavlovich, International Health Raquel Maria Peralta, Biochemistry and Molecular Biology Maria Jose Perez-Patron, Population and Family Health Sciences Stacie A. Perkins, Biochemistry and Molecular Biology Hasnain Yusufi Photowalla, Health Policy and Management

Christopher Baxter Pierce, Epidemiology Catherine Adrienne Porter, Epidemiology Katrin Post-Martens, Molecular Microbiology and Immunology Katiuscia Sophia Potier, Health Policy and Management Shubha Vanessa Yvonne Raju, Health Policy and Management Bahie Mary Rassekh, International Health Stephanie Ann Richard, International Health Julie Diana Richman, Environmental Health Sciences Marina Raven Rifkin, International Health Eva Yvonne Roca, International Health Sarah Helen Rogers, Population and Family Health Sciences Patricia Elena Roldan, Environmental Health Sciences Ernest Joseph Rovella, Health Policy and Management Christina Marie Schumacher, Epidemiology Richard Semakula, Population and Family Health Sciences Stefani Ann Sesler. International Health Sanket Sharadchandra Shah, Molecular Microbiology and Immunology Jeannie-Marie Sheppard, **Biostatistics** Pao-Ying Sheu, Health Policy and Management Jin Bo Shim, Health Policy and Management Nagendra Nath Sinha, Population and Family Health Sciences Christopher John Sonnenday, **Clinical Investigation** Renato Spindel, Epidemiology Rachel Lee Steinfeld, International Health Lien-Wen Su, Health Policy and Management James Anthony Suit, Biochemistry and Molecular Biology Sandhya Sundaram, International Health

Yoko Suzuki. International Health Kanako Tanigaki, International Health Godslove Eva Tetteyfio, Health Policy and Management Nandita Thatte, International Health Alicia Lashanda Thomas, Population and Family Health Sciences Valerie Jean Thompson, International Health Annelise Thornton. International Health Nhan Thanh Tran, International Health Kuo-Chen Tseng, Health Policy and Management Richard Marvin Ugarte, Epidemiology Naomi Rachel Freeman Van Dinter, International Health Damilola Walker, International Health Tamitha Tarice Walker, Health Policy and Management Chung-Kwe Wang, Health Policy and Management Haijiang Wang, Biostatistics Tzong-An Wang, Health Policy and Management Colin Patrick Ward, Health Policy and Management Stanley Plaxco Watkins III, Epidemiology Laurena Leigh-Charlotte White, Biochemistry and Molecular Biology Emma Kathleen Williams, International Health Merrick Brook Wright, Population and Family Health Sciences Yu-Pin Yan, Health Policy and Management Rena Rosa Yi, Biochemistry and Molecular Biology Ii-Yeon Yu. International Health

Masters of Public Health

Bloomberg School of Public Health

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Naomi R. Adelman, Health Policy and Management. The Hospice Primary Caregiver Questionnaire. William Keith Alexander, Environmental Health Sciences. Influence of Abrasive Grit Size/Lead Concentration on Dust Particle Size When Sanding Lead Based Paint. Karvn Anderson, Mental Health. Child and Adolescent Predictors of Youth Alcohol Use to Intoxication. Yutaka Aoki, Environmental Health Sciences. Exposure to Cholinesterase-Inhibiting Agents as a Risk Factor for Development of Non-Hodgkin's Lymphoma. Gihan Barsoum, Health Policy and Management. Legal Mobilization for Mental Health: A Case Study in Public Health Advocacy. Julie Anna Bettinger, Epidemiology. The Influence of STD Risk Perceptions and Family Factors on Sexually Transmitted Diseases in Female Adolescents. Elizabeth E. Brown, Epidemiology. Human Herpesvirus 8 and Classic Kaposi Sarcoma in the Italian Case-Control Study: Phenotypic and Genotypic Markers of Immunity. Susannah Diane Brydges, Molecular Microbiology and Immunology. Molecular Characterization of Toxoplasma Gondii MIC5 Protein/Dissection of the N-Terminal Extension of TgSODB2.

Ya-Fen Chan, Mental Health. Iuvenile Violent Behavior: The Suspected Influences of Childhood Aggression and Early Onset Drug Use. David Chang, Health Policy and Management. Age-related Variations in Trauma Care and Implications for Health Care Systems: Do We Discriminate Against the Elderly? Weimin Chen, Biostatistics. Robust Quantitative Trait Linkage Analysis in Extended Human Pedigrees. Yu-Chan Chiu, Health Policy and Management. The News Media Construction of Doctor-Patient Relationships. Marla Lynn Clayman, Health Policy and Management. Companion Behavior and Patient Autonomy in Primary Care Decision-Making Among Geriatric Patients. Lisa Hilari Clemans-Cope, Health Policy and Management. Children's Mental Health Service Use in the Community: Static and Dynamic Panel Data Models of the Treatment Effect. Susan Haines Cook, Molecular Microbiology and Immunology. Development of an in vivo Imaging System to Elucidate Mechanisms of Attenuation of Sindbis Virus.

Aaron David Curry, Health Policy and Management. Pathways to Depression: The Impact of Neighborhood Violent Crime on Inner-City Residents in Baltimore, Maryland. Christina Ann Cutshaw, Mental Health. Perceived Success of Family Mental Usekh Adventor

Conan Quinn Dickson, Health Policy and Management. The Relationship Between Hospital Characteristics and the Migration of Surgical Cases from an Inpatient to a Hospital-Based Outpatient Service in Maryland. Shannon Corinne Doocy, International Health. Recurrent Drought in Ethiopia: Microfinance Programs as a Means of Improving Coping Capacity. Catherine Mary Dormitzer, Mental Health. Family Attention and Youthful Drug Use: Protection Against Involvement? Wesley Denton Eddings, Biostatistics. Topics in the Philosophy of Statistics: Methods, Data, and Theory. Linda Diane Elam, Health Policy and Management. Insurance Status, Race, Ethnicity and Access to Antidepressant Medications. Lori Sturtz Field. Environmental Health Sciences. The Impact of Copper, Zinc Superoxide Dismutase and the Mitochondria on Oxidative Stress and Life Span in Saccharomyces cerevisiae. Kate E. Fothergill, Health Policy and Management. Childhood and Adolescent Antecedents of Adult Drug Abuse and Dependence: A Longitudinal Study. Stephanie Hope Gilbert, Mental Health. Suicidal Ideation and Risk Factors Among Individuals at Risk for HIV within the Drug Using Community. Kerry Michele Green, Health Policy and Management. The Effects of Adolescent Drug Use on Adult Role Functioning: A Longitudinal Study Examining Gender

Differences.

Lisa Hsiao-Bin Green, *Healtb Policy and Management*. Socioeconomic Experience, Race/Ethnicity and Adult Health. Joanna Levendos Greig,

- *Epidemiology.* Effect of Occupational Electric and Magnetic Field Exposure on 6-Hydroxymelatonin Sulfate Excretion.
- Atul Grover, Health Policy and Management. The Relationship Between Teaching Hospital Missions and Medicare's Graduate Medical Education and Disproportionate Share Payments.
- Nikhil Anil Gupte, *Biostatistics*. Statistical Models and Methods for Mother to Infant HIV Transmission Studies.
- Christy Lee Hanson, International Health. Utilization of Tuberculosis Control Services in Kenya: Analysis of Wealth Inequalities.
- Jennifer Rochussen Havens, *Epidemiology*. The Effect of Antisocial Personality Disorder on Drug Treatment Entry and Subsequent Needle Exchange Utilization Among Injection Drug Users from the Baltimore
- Needle Exchange Program. Kathleen M. Hayden, *Mental Healtb*. Differential Mortality by *APOE* E4 Genotype: Due to Cardiovascular Disease, Alzheimer's Disease, or Both? The
- Cache County Study. Mohammad A. Hedayati, *Environmental Healtb Sciences*. Enzymology of Transformational Recombination in *Streptococcus pneumoniae*.

Shannon Louise Henshaw, Environmental Health Sciences. Spatial Attributes of Blood Organochlorine Concentrations in Washington County, Maryland, 1974-1989. Susan M. Higman, Maternal and Child Health. The Influence of Individual and Family Characteristics on the Relationship Between a Child's Language Development and Adult Social Interaction and Life Satisfaction. Narin Hiransuthikul, Epidemiology. INH Preventive Therapy Among Thai Adults HIV-Infected Patients. Angela Sykes Howard, Environmental Health Sciences. Use of in vitro Models to Elucidate Mechanisms of Developmental Neurotoxicity. Nicole Huang, Health Policy and Management. Antibiotic Prescribing in Ambulatory Care in Taiwan. Xin Huang, International Health. Dietary Fat Intake and Uncoupling Protein Expression in Lean and Obese Mice. Hirono Ishikawa, Health Policy and Management. Physician-**Elderly Patient-Companion** Communication in Japanese Geriatric Encounters: Roles and Influence of the Companion. Leila West Jackson, Epidemiology. A Case-Control Study of Parental Occupational Lead Exposure and Total Anomalous Pulmonary Venous Return. Rachel L. Johnson, Health Policy and Management. Race, Physician-Patient Concordance, and Social Distance: Effects on Communication and Participation in Medical Visits.

Sophia Victorovna Kazakova, Health Policy and Management. Primary Care Characteristics, Individual Health Status, Racial and Ethnic Disparities, and Income Inequality. Allegra Namyeon Kim, Health Policy and Management. Evaluation of the 1996 Maryland Gun Violence Act. Ya-Pei Liu, Epidemiology. Predictors of Physical Decline and the Use of Compensatory Strategies in an Older Population. Yongmei Liu, Epidemiology. Cardiovascular Disease Among Dialysis Patients: The Role of Inflammation Genes and Markers. Jennifer Hofelt Lofland, Health Policy and Management. Access to Health Care and Workplace Absenteeism for Individuals with Migraine Headache. Nilsa Ivette Lovo-Berríos, Epidemiology. Childhood Asthma Attacks and Ambient Air Pollution in the Cataño Municipality of Puerto Rico. Claire Neff Lucas, International Health. The Equity and Cost-Effectiveness of HIV Voluntary Counseling and Testing in Tanzania. Gregory Michael Lucas, Clinical Investigation. **Optimizing Treatment** Outcomes in HIV-Infected Drug Users: An Epidemiological Assessment and Interventional Model. Edward E. Luk, Biochemistry and Molecular Biology. The Molecular Pathways of Manganese Trafficking in Saccharomyces cerevisiae. Frederick Edward Makumbi, Population and Family Health Sciences. The Impact of Parental HIV Infection on Orphauhood, Fostering and Child Survival in Rakar District, Uganda.

Jennifer Sophie Roberts Mammen, *Environmental Health Sciences*. Studies of the Effects of Single Amino Acid Polymorphisms and Mutations on the Kinetic Properties of Cytochrome P450 1B1.

James Joseph McDevitt IV, *Environmental Health Sciences.* Development of Collection and Quantitative PCR Methods for Assessing Airborne Exposures to *Aspergillns fumigatns.*

Christian Menard, Mental Health. Clustering of Child Abuse, Parental Psychopathology, and Other Family-Level Stressors and Children's Psychosocial Outcomes.

Sharon Celine Stein Merkin, *Epidemiology*. Area and Individual Socioeconomic Status, Race and Progressive Chronic Kidney Disease.

Eugene Vincent Millar, International Health. Nasopharyngeal Carriage of Streptococcus pnenmoniae among Navajo and Apache Children in the 7-Valent Pneumococcal Conjugate Vaccine (PnCRM7) Efficacy Trial: Natural History, Serologic Correlates and Duration of Protection Against Vaccine-Type Pneumococcal Carriage.

Fernando Montenegro Torres, Health Policy and Management. Human Capital Investment: Nutrition and Household Decisions on Schooling— Empirical Evidence from a Developing Country.

Liliana Moreno-Vinasco, *Environmental Health Sciences.* Mechanisms Underlying the Ability of Glucocorticoids and Retinoic Acid to Reverse Virus-Induced Airway Hyperreactivity.

Marlene R. Niefeld, Health Policy and Management. Access to Care Among Elderly Medicare and Medicaid (Dual) Enrollees. Christina Catherine Pallitto. Population and Family Health Sciences. Intimate Partner Violence and Unintended Pregnancy in Colombia. Susan Sylvia Patania, Health Policy and Management. Use of Antiretrovirals and PCP Prophylaxis in HIV Positive Urban Women with Depressive Symptoms: The HER Study. Sallie Robey Permar, Molecular Microbiology and Immunology. Mechanisms of Measles Virus Clearance and Immunologic Consequences of Infection. Sabrina Santoni Plitt, Epidemiology. Sexually Transmitted Infections and Sexual Behaviours of Young Drug Users in Baltimore, Marvland. Laura McCallister Prichett, Population and Family Health Sciences. Childhood Effects of Low Birth Weight. Shangqian Qi, Epidemiology. Use of Digital Analysis to Detect Fraud in Clinical Trials. Preetha Rajaraman, Epidemiology. Occupational Exposure to Lead, Genetic Susceptibility and Risk of Adult Brain Tumors. Ravi Madhira Ram, International Health. Determinants of Linear Growth Over the Preschoolto-School-Aged Years in Rural Nepal. Julie Ellen Rider, Environmental Health Sciences. Role of Polyamines in the Protection of Cells from Reactive Oxygen Species.

W. Courtland Robinson, *Population Dynamics.*"Famine in Slow Motion": A Retrospective Study of North Korean Mortality, 1995–1998.

Richard Scott Rogers, Biochemistry and Molecular Biology. Functional Significance of SUMO Modified Transcription Factors.

Martin J. Romeo, *Biochemistry* and Molecular Biology. Yeast Ras Signaling on the Endoplasmic Reticulum.

Marie-Hélène Roy-Gagnon, *Epidemiology*. Theoretical and Applied Investigations of a Regression of Offspring on Mid-Parent Approach: Familial Idiopathic Scoliosis.

Lewis Rubinson, *Clinical Investigation*. Optimizing Clinician Practices to Prevent Central Venous Catheter-Related Bloodstream Infections in Intensive Care Units.

Lisa Marie Sacco, *International Health*. Maternal Perception of Infant Crying: Effects on Infant Feeding Choices in Mexico.

Lionel Schachna, *Clinical Investigation*. Novel Predictors of Clinical Expression in Scleroderma.

Pamela Elizabeth Scott, *Epidemiology*. Medical Device Approvals: An Assessment of the Level of Evidence.

Weeraporn Seungthaworn, *Environmental Healtb Sciences.* Living and Working Experiences Among Thai Immigrant Women.
Mona Sharan, *Population and Family Healtb Sciences.* Determinants of Safe Motherhood and Newborn Care Behaviors in Rural India. Corinne L. Shefner-Rogers, *Population and Family Health Sciences.* Pregnancy Knowledge, Attitudes, and Practices in Indonesia: Does Husband's Social Support Make a Difference?

Joshua Jacob Shinoff, International Health. Humoral Immune Responses of Infants and Young Children to Vaccination or Natural Infection with RSV.

Julia Slutsman, *Health Policy* and Management. Assessing Physicians' Attitudes Toward the Federal Health Information Privacy Rule (HIPAA Privacy Rule) and Associated Organizational Compliance Efforts.

Sorachai Srisuma, *Environmental Health Sciences.* Genomic Regulation of Angiogenesis in Mouse Lung.

Aleksandr Byron Stefaniak, *Environmental Health Sciences.* Influence of Physicochemical Properties on Dissolution of Beryllium from Respirable Beryllium Particle and Powders Associated with Chronic Beryllium Disease.

Deirdre Ellen Kathleen Tarr, Molecular Microbiology and Immunology. As-MDPs: New Members of the Ascaris suum MSP-Domain Protein Family.

Karin Elizabeth Tobin, *Health Policy and Management*. Individual and Social-Contextual Correlates to Calling 911 During Witnessed Drug Overdose. Colleen Tang Tsui,

Biochemistry and Molecular Biology. Regulation of Polyubiquitin Chain Signaling in DNA Repair. Maria Todorova Vassileva, Biochemistry and Molecular Biology. SUMO Modification of Nuclear Proteins and Its Role in Messenger RNA Biogenesis and Chromosome Segregation.

Leigh Ann White, *Healtb Policy and Management*. Effects of Psychological Distress on Employment Among Low-Income Women.

April Zambelli-Weiner, *Epidemiology*. Gene-Environment Interaction in Asthma: CD14 and Endotoxin.

Feng Zhao, *Population Dynamics*. Maternal Education, Community Factors and Fertility in Relation to Child Health in Developing Countries.

Doctors of Philosophy

The Paul H. Nitze School of Advanced International Studies

Christopher S. Chivvis. Order and Freedom in the International Political Economy: The Development of the Political Economic Thought of Jacques Rueff, 1922–1972.

Jing Jin. Fiscal Federalism or Tax Farming: Political Economy of Fiscal Decentralization in China. Marianna Kozintseva. Competitive Enterprise: Using Power Cycle Theory to Estimate Firm's Relative

Capabilities and Market Response. Yusin Lee. Formation of a

Coherent Concept of Russia's National Interest in the Caspian Sea: A Constructivist Explanation. Diana Thorburn. The Political Economy of Foreign Banks in Latin America: Mexico and Argentina, 1990–2001. Irene Susie Wu. Liberalizing Telecommunications Services in China: The Limits of Economic Reform without Political Reform.

Doctors of Medicine

The School of Medicine

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Jacob Michael Jones Nathan Patrick Jones Jeremy David Kassebaum Alexander Arash Khalessi Mary Christine King Jeffrey Hall Kozlow Rvan Michael Kretzer Ivv Ann Ku George Peter Kuo Heather Renae Larkin Inna Levbell Joseph Lengeeh Lin Iris Gutmark Little Kevin James Little Ravmond Wei Liu Kristie Louie Lin Meghan Anne Lynch Cathleen Favrot Magill David Taylor Majure Jennifer Sophie Roberts Mammen Benjamin Alden Mandel Marc Ward McAllister Carolyn Anne McClain Joshua Todd Mendell Jonathan Marcus Miller Maryam Mokhtarzadeh Eva Michele Moore Andrew Evan Muck Rupa Mukherjee Venkatesh Locharla Murthy Lisa Ann Nash Hari Nathan John Dodd Neely David Anthony Nieglos David Abraham Nussbaum Virginia White O'Keefe Stephen Leighton Osgood Michael Paltiel Jaclyn Tennille Parker Marcus William Parker Daniele Djenaba Peters Thomas Michael Pilkington Sarah Polk Jennifer Cohen Price Matthew Joseph Provenzano Douglas Edward Ramsey Jamie Michelle Rand Pravin Kumar Rao Bradley Clay Register Jocelyn Mary Delia Rieder Kevin Stuart Ross Meghan Kathleen Rothenberger Bradley Philip Ryan Saurabh Saha

Michael Kenneth Shindle Brenda Aika Shoo David Richard Shook Mona Haider Siddiqui Bantayehu Sileshi Rachel Peck Simmons Akhilesh Keshav Sista Stanislav Spivak Brad Steven Sutton Stephanie Alicia Terezakis Rebecca Lyn Toonkel Hung Chi Tran Mark Minh Tran Melissa Marie Wahba Tracy Jennifer Wanner Elliot Theodore Weiss Ryan P. Westergaard Ann Rondeau Westra Jane Jinvin Yu

Doctors of Philosophy

The School of Medicine

Elliott Warren Abrams, Biochemistry, Cellular and Molecular Biology Training Program-Cell Biology. Uncovering New Roles for the FoxA Protein Fkh and the bZIP protein CrebA in Drosophila Organ Development. Michael Scott Ackerman Jr., Program in Molecular Biophysics. Characterization of the Long-Range Structure of the Denatured State of Staphylococcal Nuclease Through the Analysis of Residual Dipolar Couplings. Lloyd Thomas Ackert Jr., History of Medicine. From the Thermodynamics of Life to Ecological Microbiology: Sergei Vinogradskii and the Cycle of Life, 1850-1950. Kristina Joy Aldridge, Functional Anatomy and Evolution. Organization of the Human Brain: Development, Variability, and Evolution.

José Luis Avalos, Biochemistry, Cellnlar and Molecular Biology Training Program—Biophysics and Biophysical Chemistry. Structural Studies of Sir2 Enzyme Mechanism.

- Nurjana Bachman, Biochemistry, Cellnlar and Molecnlar Biology Training Program—Molecular Biology and Genetics. Integration Target Site Preferences of the Ty1 Retrotransposon in S.cerevisiae.
- David Eduardo Barañano, *Nemroscience*. Mechanisms of Protection by Heme Oxygenases.
- Kristin Whitford Barañano, *Nemroscience*. Analysis of Slit1 Function in Neocortical Differentiation.
- Mirza Faisal Beg, *Biomedical Engineering*. Variational and Computational Methods for Flows of Diffeomorphisms in Image Matching and Growth in Computational Anatomy.
- Serge Bergeron, Biochemistry, Cellnlar and Molecular Biology Training Program—Biophysics and Biophysical Chemistry. Inhibition of SV40-Based DNA Replication by a Designed Zinc-Finger Protein.
- Rodrigo Igor Bustos, *Cell Biology*. Two Studies on Post-Golgi Trafficking in Polarized Cells.

Juanliang Cai, *Hnman Genetics*. Human Craniofacial Development: Genes and Their Expression Profiles.

Rachel Ann Cassidy, Program in Molecnlar Biophysics. DNA Triplex Formation by Base, Backbone, and Sugar-Ring Modified Oligonucleotides With HIV Targets.

Ying Chen, Biochemistry, Cellular and Molecular Biology Training Program-Nemroscience. Interaction of CAP70 with Actinfilin Dynamically Regulates Actin Cytoskeleton in Neurons. Yingbei Chen, Pharmacology and Molecnlar Sciences. The Role of BCL-xL in **Regulating Mitochondrial** Function and Neuronal Cell Death. Chekesha Clingman, Program in Molecular Biophysics. NMR Transverse Relaxation in Blood: Implications for the Intravascular Signal Contribution in Functional MRI. Valerie Burke DeLeon, Functional Anatomy and Evolution. Fluctuating Asymmetry in the Human Craniofacial Skeleton: Effects of Sexual Dimorphism, Stress, and Developmental Anomalies. Ryan Andrew Dick, Pharmacology and Molecular Sciences. Substrate Specificity and Catalytic Mechanism of NADPH-Dependent Alkenal/One Oxidoreductase. Jennifer Ann Dunston, Human Genetics. A Genetic Approach to Understanding the Phenotypic Variability of Nail Patella Syndrome. Yih-Ru Fannjiang, Pharmacology and Molecular Sciences. From Yeast to Mammals: A Functional Analysis of Fis-1 and BAK in Programmed Cell Death. Owen Patrick Faris, Biomedical Engineering. Assessment of Electrical and Mechanical Synchrony in the Heart. Susan J. Ferry, History of

Isan J. Ferry, *History of Medicine*. Bodily Knowledge: Female Body Culture and Subjectivity in Manchester, 1870–1900.

Loise Marie Francisco. Molecular Biology and Genetics -Program in Immunology. Characterization of Human **B7-DC: A B7 Costimulatory** Molecule Functioning in Bidirectional DC Signaling. Matthew Bryan Frieman, Cellular and Molecular Medicine. Fungal Cell Wall Proteins. Rivka Leah Glaser, Human Genetics. The Role of Paternal Origin and Frequency of Mutations in the Paternal Age Effect. David Raymond Graham, Biochemistry, Cellular and Molecular Biology Training Program—Pharmacology and Molecular Sciences. Evidence for Human Immunodeficiency Virus and Simian Immunodeficiency Virus Virion-Associated Lipid Rafts: A New Model of Lentivirus Organization. Joshua D. Groman, Hnman Genetics. Genetic and Phenotype Analysis Indicates Multiple Etiologies of Non-Classic Cystic Fibrosis. Anthony Lawrence Guerrerio Jr., Program in Molecular Biophysics. Metal-Binding Properties of the Zinc Fingers in Metal Responsive Element-Binding Transcription Factor-1 and Design of Single-Stranded Nucleic Acid binding Proteins Using Nucleocapsid-Like CCHC Zinc-Binding Domains. Timothy W. Hefferon, Human Genetics. New Insights Into the Role of CIS-Acting Sequences in the Splicing of a Constitutive Exon. Nicola Mary Heller, Cellnlar and Molecular Medicine. The Regulation of the Activation of Airway Epithelial Cells by Cytokines and Glucocorticoids.

Daniel Alfredo Herzka. Biomedical Engineering. Fast Cardiac Magnetic Resonance Imaging: Improvements in Efficiency and Resolution for the Measurement of Cardiac Function. Anita Marie Hettena. Functional Anatomy and Evolution. A Three-Dimensional Analysis of Age-Related Change in the Adult Craniofacial Skeleton. David A. Hinkle. Nenroscience. The Neural Representation of Stereoscopic Disparity Tuning and Three-**Dimensional** Orientation Tuning in Area V4 of the Macaque Monkey Visual Cortex. Alyson Aiken Hobbs, Biochemistry, Cellular and Molecular Biology Training Program—Cell Biology. Mmm1p Functions in

Contact Sites. Yi Elaine Huang, Biochemistry, Cellular and Molecular Biology Training Program—Cell Biology. Phosphatidylinositol Signaling in Chemotaxis. Arne Ijpma, Cellular and Molecular Medicine. The DNA Damage Response to Telomere Dysfunction in S. cerevisiae. Jacob Michael Jones, Biochemistry, Cellnlar and Molecular Biology Training Program—Biological Chemistry. Peroxisome Biochemistry and Membrane Protein Import. Suzanne Ramirez Kalb, Pharmacology and Molecular Sciences. Chemical Modification of Specific Residues to Improve Peptide Antigen Sequencing by Mass Spectrometric Fragmentation.

Mitochondrial DNA

Nucleoid Structure at

Lin-Woo Kang, Biochemistry, Cellular and Molecular Biology Training Program—Biophysics and Biophysical Chemistry. Structure and Mechanism of Nudix Hydrolases: MT-ADPRase from Mycobacterium tuberculosis, DR-CoAse from Deiunococcus radiodurans.

Shin Hyeok Kang, Cellular and Molecular Medicine. The Roles of Homer-3 in Cerebellar Purkinje Neurons and Primary Thermal Sensory Systems. Gyanu Lamichhane, Cellular and Molecular Medicine. Genes Required for Growth of Mycobacterium tuberculosis in vitro and in vivo.

Marina Siu Chin Lee, Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. Distinct Functions of the Spindle Checkpoint Proteins Mad1-Mad2, and Mad3.

Min Gyu Lee, *Biological Chemistry*. Molecular Insights into the Transcriptional Regulation of the Type II Hexokinase Gene in Highly Glycolytic Hepatoma Cells and Hepatocytes.

Alysa Leandra Lesemann, *Program in Molecular Biophysics*. Defining a Role for G-gamma-13 in Olfaction and Biochemical Studies of Olfactory Receptor Activation and AC3 Modulation.

Joseph Wesley Lewcock, Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. Molecular Mechanisms Regulating Mono-Allelic Odorant Receptor Expression.

Hanzhang Lu, Biomedical Engineering. Vascular-based Signal Contrast in **Functional Magnetic** Resonance Imaging. Joshua Todd Mendell, Human Genetics. Cloning and Functional Characterization of Mammalian Trans-Effectors of Nonsense-Mediated MRNA Decay. Adèle Andra Mitchell, Hunnan Genetics. Theoretical and **Empirical Issues in Disease** Gene Mapping. Chester Gunn Moore, Neuroscience. Regulation of Group 1 Metabotropic Glutamate Receptor Function and Homer Interaction by Phosphorylation of the Homer Ligand. Rajendrani Mukhopadhyay, Biochemistry, Cellular and Molecular Biology Training Program-Physiology. Molecular Mechanisms of Establishing Microtubule Spacing. Michele Lee Nealen, Cellular

- and Molecular Medicine. Molecular Thermosensation in the Peripheral Nervous System.
- Celeste Marie Nelson, *Biomedical Engineering*. The Regulation of Endothelial Cell Form and Function by VE-Cadherin.
- Lindsay Thomas Odell, Biochemistry, Cellular and Molecular Biology Training Program—Biological Chemistry. The X-ray Crystallographic Structure of Phytanoyl-Coenzyme A Hydroxylase, an Fe(II) 2-Oxoglutarate Dependent Dioxygenase Involved in Refsum's Disease.

Sean Francis O'Hearn. Biochemistry, Cellular and Molecular Biology Training Program—Biological Chemistry. Characterization of the Seven Major Polypeptides of the Trypanosoma brucei **RNA** Editing Complex. Emily Dawn Overholser, Biochemistry, Cellular and Molecular Biology Training Program-Molecular Biology and Genetics. Insights Into Simian Immunodeficiency Virus-Induced Central Nervous System Disease: The Role of the Astrocyte and the Endothelial Cell. Elaine Maria Pinheiro, Biochemistry, Cellular and Molecular Biology Training Program-Biological Chemistry. Roles of **Epithelial Polarity Proteins** and Guidance Cues in Drosophila Border Cell Migration. Kent J. Rohleder, Human Genetics. Physical and Functional Interactions Between Adenovirus E4 Proteins and Host Cell Proteins. Sarah Michelle Rue, Biochemistry, Cellular and Molecular Biology Training Program-Molecular Biology and Genetics. Molecular Mechanisms Involved in SIV Maturation. Jonathan Nathaniel Sachs, Biomedical Engineering. Structural Properties of the Lipid Bilayer and Aqueus Environment: Molecular Dynamics Simulations. Saurabh Saha, Cellular and Molecular Medicine. Discovery of a Phosphatase Associated with Metastatic

Colorectal Cancer.

Amar Sahay, *Biochemistry*, *Cellular and Molecular Biology Training Program— Neuroscience*. Secreted Semaphorin Functions in Axon Guidance and Synaptic Transmission.

Tina Marie Tominc Saxowsky, Biochemistry, Cellular and Molecular Biology Training Program—Biological Chemistry. Characterization of Mitochondrial DNA Polymerase β Enzymes of Trypanosomatid Parasites. Kara Ann Scheibner, Pharmacology and Molecular Sciences. Serotonin N-

Acetyltransferase: Filling in the Mechanistic Holes. Miriam Segura-Totten, *Biochemistry, Cellular and Molecular Biology Training Program—Cell Biology.* Understanding the Role of Barrier-to-Autointegration Factor (BAF) in Nuclear

Assembly, Chromatin Condensation and Transcriptional Regulation. Jeffrey A. Shaman, *Pharmacology and Molecular Sciences.* The Specific Organization of DNA in the Mammalian Nucleus.

Guy Shechter, *Biomedical Engineering.* Respiratory Motion of the Heart: Implications for Magnetic Resonance Coronary Angiography.

James Kenneth Silverman, Biochemistry, Cellular and Molecular Biology Training Program—Cell Biology, Characterization of Pianissimo: A Membrane Associated Factor Required for G Protein Coupled Receptor Regulation of Adenylate Cyclase in Dictyostelium discotideum. Zachary Squire Skelding, Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. Target Based Regulation of the Tn7 Transposase.

- Ruijiang Song, *Pharmacology* and Molecular Sciences. The Adjuvant Effects of Chemokines and Cytokines on HIV DNA Vaccine Design.
- Jonathan Michael Sorger, Biomedical Engineering. Magnetic Resonance Imaging Applied to Cardiac Pathologies: Methods for Diagnoses and Delivery of Therapy.
- Daniel Ryland Southworth, Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. The Ribosomal Components Involved in Translocation of the tRNA: mRNA Complex.
- Jonathan Milton Spenner, Program in Molecular Biophysics. Thermodynamic and Structural Analysis of a Valine-Valine Hydrophobic Interaction Across a Protein Beta-Sheet.
- Michael Edward Szperka, Biochemistry, Cellular and Molecular Biology Training Program-Molecular Biology and Genetics. Studies on the Expression of QA-1.
- Yunyue Wang, Cellular and Molecular Medicine. The Genomics of Early and Delayed Response of C-Myc Targets: Human Tert and Cyclin B1.
- Sarah May White, *Cellular and Molecular Medicine*. Identification of a Novel Domain That Regulates Mitosis: Insights from Human Ufd2.

Hong Xu, *Biological Chemistry*. Molecular Genetics of Drosophila Sensory Transduction.

- Haihong Ye, *Neuroscience*. Functional Roles of Local and Retrograde NGF-TrkA Signaling in Sympathetic Neurons.
- William H. York, *History of Medicine*. Experience and Theory in Medical Practice During the Later Middle Ages: Valesco de Tarenta (fl.1382–1426) at the Court of Foix.
- Jane Jinyin Yu, *Biomedical Engineering*. Spectral Information Encoding in the Cochlear Nucleus and Inferior Colliculus: A Study Based on the Random Spectral Shape Method.
- Joanna Maria Zarach, *Neuroscience*. The Role of Hairless, A Nuclear Receptor Corepressor, in
- Skin and Brain. Shan Zha, *Pharmacology and Molecular Sciences*. Cyclooxygenase-2 and alpha-Methylacyl-CoA Racemase in Prostate Cancer.
- Jiangwen Zhang, Biochemistry, Cellular and Molecular Biology Training Program—Biological Chemistry. Role of C/EBPβ in Adipogenesis.
- Yan Zhou, Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. In vitro Study of HIV-1 Latency.

Doctors of Philosophy

The G.W.C. Whiting School of Engineering

James Patrick Abulencia. Chemical and Biomolecular Engineering. Characterization of Shear Stress Response in Two Distinct Physiological Systems. Angela Marie Arnold, Geography and Environmental Engineering. An Interglacial (Sangamon) and Late Holocene Record of Chesapeake Bay. Daniel Joseph Bain, Geography and Environmental Engineering. 400 Years of Land Use Impacts on Landscape Structure and **Riparian Sediment Dynamics:** Investigations using Chromite Mining Waste and Property Mosaics. Stéphane Philip Bucaille, Electrical and Computer Engineering. Spatial Coherence of Atmospheric Turbulence Corrupted Laser Beams: Applications to Free-Space Optical Communications. Stephen Gaspar Buonopane, Civil Engineering. Reliability and Bayesian Approaches to the Probabilistic Performance-Based Design of Structures. Monica Maki Burdick, Chemical and Biomolecular Engineering. Characterization of Receptor-Mediated Interactions in Inflammation and Cancer Metastasis Under Flow. Daniel Lawrence Carlson, Geography and Environmental Engineering. Environmental Transformations of Chloroacetamide Herbicides: Hydrolysis and

Qiaoning Chen, Mechanical Engineering. Helical and Rotating Turbulence in Three Dimensions.

Leslie Michael Cope, *Applied Mathematics and Statistics*. Some Asymptotic Properties of Smooth Quantile Ratio Estimation.

Silviu Petru Cucerzan, *Computer Science*. Language Independent, Minimally Supervised Methods in Natural Language Ambiguity Resolution.

Derek A. T. Cummings, Geography and Environmental Engineering. The Spatial and Temporal Dynamics of Dengue Hemorrhagic Fever Incidence in Thailand.

Breno Fonseca De Medeiros, *Computer Science*. New Cryptographic Primitives with Applications to Information Privacy and Corporate Confidentiality.

Jeffrey Stephen Erickson, *Chemical and Biomolecular Engineering*. Adsorption of Molecules with Anisotropic Interactions: Theory and Simulation.

Jennifer L. Fiegel, *Chemical* and Biomolecular Engineering. Poly(ether-anhydride) Dry Particle Aerosols.

William Peter Fritz, *Civil Engineering*. Period and Damping Selection for the Design and Analysis of Building Structures.

David Howard Goldberg, *Electrical and Computer Engineering*. Efficient Spike Communication and Computation in Biological and Engineered Systems.

Xiao Han, *Electrical and Computer Engineering.* Anatomically Consistent Segmentation of Medical Imagery Using a Level Set Method and Digital Topology.

Reactions with Iron

Teresa Marie Kamm, *Electrical* and Computer Engineering. Active Learning for Acoustic Speech Recognition Modeling.

Qinjun Kang, Mechanical Engineeriug. Lattice Boltzmann Simulation of Flow in Porous Media.

Chang-Seok Kim, Electrical and Computer Engineering. Tunable Multi-Wavelength Fiber Lasers Based Novel Fiber-Optic Components. Jongbum Kim, Geography and Enviroumental Engineering. Multicriteria Bayesian Analysis of Lower Trophic

Analysis of Lower Trophic Level Uncertainties and Value of Research in Lake Erie.

Moon Ki Kim, *Mechanical Engineering*. Elastic Network Models of Biomolecular Structure and Dynamics.

Jan Kleissl, Geography and Environmental Engineering. Field Experimental Study of the Smagorinsky Model and Application to Large Eddy Simulation.

Tamar Kohn, Geography and Environmental Engineering. Reduction of Organohalides by Granular Iron: Co-Solute Effects and Mechanistic Considerations.

Thomas Pedicino Kole, *Chemical and Biomolecular Engineering.* Intracellular Mechanics of Cell Migration and Rho GTPase Mediated Cytoskeleton Organization.

Jie Liang, *Electrical and Computer Engineering*. Filter Bank Design for Image/ Video Compression and Digital Communications.

Haoyang Liu, *Civil Engineering.* Bayesian Classifiers for Uncertainty Modeling With Applications to Global Optimization and Solid Mechanics Problems. Lan Ma, Electrical and Computer Engineering. Feedback Control in the Chemotactic Signaling Pathway of Dictyostelium discoideum.

Alain Matta, *Civil Engineeriug*. Numerical Simulation and Uncertainty Quantification in Microfluidic Systems.

Lixin Mi, *Chemical and Biomolecular Eugineering*. Protein Hydrogels with Engineered Biomolecular Recognition.

Xiaobo Nie, *Mechanical Engineering*. Simulation of Granular Flow and Micro-Flow.

Cristina Nita-Rotaru, Computer Science. Secure Group Communications.

Ender Ozkan, *Civil Engineering*. Evaluation of Response Prediction Methodology for Long-Span Bridges Using Full-Scale Measurements. Izzet Pembeci, *Computer Science*. Functional Reactive

Programming as a Framework for Robot Programming and Hybrid Systems.

Michael C. Riley, *Computer Science*. Distributed Load Balancing.

Jianxu Shi, *Civil Engineering*. Stochastic Modeling of Materials with Complex Microstructure.

Chengjie Tu, *Electrical and Computer Engineering*. Pre-/Post-Filtering and Context Modeling for DCT Based Block Coding Systems.

Charles Fox Whitehead, Geography and Environmental Engineering. (Amino) Carboxylate Coordination Reactions with Ferric (Hydr)Oxides: Adsorption and Ligand-Assisted Dissolution.

Shuangmei Xu, Electrical and Computer Engineering. Reducing Semiconductor **Optical Amplifier-Induced** Crosstalk in Wavelength Division Multiplexing Links. Weishi Yuan, Applied Mathematics and Statistics. Asymptotic Properties and Inferences for Varying Coefficient Regression with Longitudinal Variables. Guoqiang Zang, Electrical and Computer Engineering. Bode's Integral—Extensions in Linear Time-Varying and Nonlinear Systems. Yu Zhou, Mechanical Engineering. Stochastic Modeling and Inverse Problems in Robotics and

Doctors of Philosophy

The Zanvyl Krieger School of Arts and Sciences

Bimolecular Mechanics.

Richard Shane Agin, *Romance* Langnages and Literatures. Translations of Aesthetic Experience: Diderot and the Dilemma of Writing on Art. Jennifer Joy Baggett, *Biology*. Investigating Clathrin Function in Yeast Endocytosis.

Dalit Baranoff, *History*. Shaped by Risk: The American Fire Insurance Industry, 1790–

Laura Ann Bauer, *Chemistry*. Nanowires: Synthesis, Fluorescence Functionalization, and Biological Applications.

Sarae Lorraine Bausch, *Chemistry*. Characterization of Elongation Factor G and Ribosomal Protein L11 from *Bacillus stearo thermophilus*: Interactions With Ribosomal RNA Fragments and Cooperative Effects of a Thiazole Antibiotic. Bryan Vernon Bergeron, *Chemistry*. Approaches to Optimize Photovoltage in Dye-Sensitized Solar Cells. Karen Ellen Bogen, *Sociology*. Jobs and Parenting 24-7: Web School and School

Work Schedules and Parenting of the Working Poor.

Christina M. Bradley, *Biophysics*. Stability, Cooperativity and Folding Kinetics of the Notch Ankyrin Domain.

Larry Daniel Bradley II, *Physics* and Astronomy. Physical Conditions in the Narrow-Line Regions of M51 and NGC 4151.

Girard John Brenneman III, *Philosophy*. Humean Natural Believing and the Design

Laura Anne Buttitta, *Biology*. Hedgehog and WNT Signaling Mechanisms in Mammalian Musculoskeletal Development.

Violaine Chauvet, *Near Eastern Studies.* The Conception of Private Tombs in the Late Old Kingdom.

Stephen Douglas Collins, *Political Science*. Purchasing Power: Economic Statecraft and International Structure.

Gergana Todorova Danailova-Trainor, *Economics*. Open Economy Policy Rules.

Mariana Libanio Dantas, *History.* Black Townsmen: A Comparative Study of Persons of African Origin and Descent in Slavery and Freedom in Baltimore, Maryland, and Sabará, Minas Gerais, 1750–1810.

Lisa Brett Davidson, *Cognitive Science*. The Atoms of Phonological Representation: Gestures, Coordination and Perceptual Features in Consonant Cluster Phonotactics.

Brian James Dean, Mathematics. Some Results on Stable Compact Embedded Minimal Surfaces in 3-Manifolds. Burcu Duygan, Economics. Aggregate Shocks, Idiosyncratic Risk, Consumption and Risk Sharing. Selim Elekdag, Economics. Essays on Monetary Policy in Emerging Market Anne Mary Epstein, Economics. Hospital Mergers and Their Effects on the Quality of Care: Is It Market Power That Matters? Mario Andreas Feit, Political Science. Mortality, Sexuality and Citizenship: Reading Rousseau, Arendt and Nietzsche. Ken DeVann Fentress, Near Eastern Studies. Ezekiel's Oracles Against Egypt: A New Study of Ezekiel Chapters 29-32. Kathleen Elaine Saavik Ford, Physics and Astronomy. Detection and Characterization of an Extrasolar Cometary System. Cuauhtémoc García-García, Biophysics. Electrostatics in **RNA-Protein Recognition.** Susanna Garfein, Near Eastern Studies. Temple-Palace Conflict in Pre-exilic Judah. Tara Gretchen Gilligan, Philosophy. Constructing a Moral Life: Literature and the Ordinary Moral Agent. Juliet Glass, History. The Royal Chapel of the Alcázar: Princely Spectacle in the Spanish Habsburg Court. Stuart Murray Gluck, Philosophy. The Metaphysics of Quantum Mechanics. Aaron Goodfellow, Anthropology. "Inqueeries": Tracing the Reproduction Legacies of Gay Men.

Harry Damon Gould Jr., Political Science, Toward a Neopragmatist Jurisprudence: New Haven, Contingency, and Obligation. Ivan Grabovac, Humanities. Thoreau's Passion. Michele Gunsior, Chemistry. Characterization and Analysis of Enzymes Involved in the Biosynthesis of Nocardicin A. Ahmed Mostafa Hafez, Chemistry. Generation of Highly Reactive Ketenes and Their Synthetic Utility as Intermediates in the Asymmetric Synthesis of **Biologically Active** John Tracy Hale, Cognitive Science. Grammar, Uncertainty, and Sentence Processing. Sonja Martin Hamilton, Romance Languages and Literatures. La Plume et le couperet: Enjeux politiques et littéraires de la peine de mort autour de 1830. Matthew Jonathan Harley, Biology. The Determination of Functional Amino Acid Residues for F TraI Relaxase Activity and Specificity. Adia M. Harvey, Sociology. "A Field Where You Can Do Well": Black Women's Entrepreneurship in the Hair Industry as a Pathway to Socioeconomic Attainment. Katherine Ann Helm, Psychology. Forebrain Regulation of Hypothalamic-pituitary-adrenal Function: Role in Aging and Neurodegenerative Disease. Paul Gerard Hoertz Jr., Chemistry. Charge Separation and Recombination in Dye-Sensitized Nanocrystalline Titanium Dioxide Films.

Vicki Hsueh, Political Science, Disrupting the Empire of Uniformity: Cultural Negotiation and the Emergence of Modern Constitutionalism. Dongli Huang, Biology. Chromosome Integrity Determinants in Saccharomyces Ho-fung Hung, Sociology. Dynamics of Popular Contentions in Mid-Oing China. Stefanie Lyne Japel, Earth and Planetary Sciences. A Study of Light Elements and Water in the Earth's Interior. Prashanth Kasturi Rangan, Biophysics. Folding of the Azoarcus Intron. Wendy L. Kelly, Chemistry. An Investigation into the Enzymes Required in the Biosynthesis of the .B-Lactam Antibiotic Nocardicin A. Yi Le, Physics and Astronomy. Measurement of the $\Lambda_{\rm b}$ to $\Lambda_c \pi$ - Branching Ratio. Andrew Brett Leber, Psychology. On the Maintenance and Switching of Attentional Set. Seok-Min Lee, Mathematics. On Certain Cohomological Invariants of Quadratic Number Fields. Surjeet Singh Mastwal, Biology. Latrophilins: Synaptic Proteins with a Novel Epithelial Function in Caenorbabditis elegans and the Evolution and Function of Family B G-protein Coupled Receptors. Michael J. May, Physics and Astronomy. Effective Field Theory: Stability and Phenomenology of Extra Dimensions. Dana Lynn Miller, Biology. Oligomerization of TraM and Its Role in Conjugative Transfer of the F Episome.

Darlene Ruth Miller, Sociology. The Regional Claims of Workers in Post-Apartheid Southern Africa: A Case Study of Shoprite, a Retail Multinational, in Zambia and Mozambique. Jacques Alain Miniane, Economics. Four Essays on Theoretical and Empirical Aspects of International Capital Flows. Andrea Mara Molod, Earth and Planetary Sciences. Interactions Between the Heterogeneous Land Surface and the Atmosphere in Global Models. Luc André Monnin, Romauce Languages and Literatures. Genèses analytiques à l'âge des Lumières. Kevin B. Moore, Economics, Essays on Self-Employment and Entrepreneurship. Matthew J. Moore, Political Science. Living Plurality: Contextualism And Politics. Nakisha Denise Moore, Biology. Engineering and Understanding Protein-Arm Susan Winther Morris, History of Science, Medicine, and Technology. Resource Networks: Industrial Research in Small Enterprises 1860-1930. Eric M. Muller, Biology. Regulation of Ca²⁺ Influx During the Pheromone Response of Saccharomyces cerevisiae. Takéhiko Nakama, Psychology. System Identification Analysis of Neuronal Responses to Bimanual Stimulation in the Second Somatosensory Cortex. Hina Nazar, Euglish. The Social Idea: Thinking and Attachment in the Novel.

Azin Ghorbani Nezami, Biology. Structure-based Design of Novel Inhibitors of Plasmepsins: A Family of Anti-Malarial Targets. John Jackson Nichols, Near Eastern Studies. Amorite Agro-Pastoralism and the Early to Middle Bronze Age Transition in Syria. John Michael Nilles, Chemistry. Bridging the Gap: Gas Phase Study of Condensed Phase Phenomena. Kristine Funkhouser Nowak, Biology. The Epsilon Subunit of Chloroplast ATP Synthase: Effects of C-terminal Deletions on Enzyme Activity and Regulation. Cristina Mercês Oliveira, Physics and Astronomy. A Study of Deuterium in the Local Interstellar Medium. Jin-Hyouk Park, Biology. Roles of Dynactin Complex in GR Signaling Pathway. Riccardo Pelizzo, Political Science. Cartel Parties and Cartel Party Systems. Tim R. Pollack-Lagushenko, History. The Armagnac Faction: New Patterns of Political Violence in Late Medieval France. Christopher Powers, Humanities. Ambivalent Freedom: The Politics of Style in the Writings of James Joyce and Ralph Ellison. Leopoldine Henriëtte Prosperetti, History of Art. Jan Brueghel and the Landscape of Devotion: Spiritual Reform and Landscape Subjects in Antwerp Painting Between 1595

Bobby Ramdhanie, *Chemistry*. Synthesis and Spectroscopic Characterization of Metallotriazacorroles. Michele Redi, *Physics and Astronomy*. Effective Field Theories of Warped Extra Dimensions.

- Christophe Philippe Reuland, *Romance Langnages and Literatures.* Des Moulins pour des géants. Essai sur l'imagination dans l'oeuvre romanesque obscène du marquis de Sade.
- Michelle McLaurin Rodriguez, *Political Science*. Administration in Public: Arendt and Habermas on Government Initiative. Jennifer Louise Roff, *Economics*. A Stackelberg Model of Child Support and Welfare.
- Neil Franklin Safier, *History*. Writing the Andes, Reading the Amazon: Voyages of Exploration and the Itineraries of Scientific Knowledge in the
- Eighteenth Century. Joseph Benedict Sala, *Psychology*. Active Maintenance and the Binding of Information During Working Memory.
- Jennifer Janne Sartor, *Psychology*. The Role of Variation in Singing Behavior in the Regulation of Seasonal Neuroplasticity in European Starlings.
- Mark Harry Seibert, *Physics* and Astronomy. Ultraviolet and Infrared Properties of Extra-Galactic Star Formation.
- Sarah Shomstein, *Psychology*. Multimodal Control of Selective Attention: The Role of Parietal Cortex During Attentional Shifts.
- Elke Siegel, *German*. Entfernte Freunde. Drei Fallstudien zur Freundschaft der Moderne (Nietzsche, Freud, Kafka).

and Applications of Submicron Magnetic Structures. Lisa Michele Siraganian, English. Breathing Freely: The Object of Art and the Subject of Politics in American Modernism. Anthony Stapon, Chemistry. The Elucidation of the Carbapenem Antibiotic Biosynthetic Pathway. Jyothishmathi Swaminathan, Biology. Characterization of the Functional Role of Histone 2A Variant, H2Av, in Drosophila melanogaster. Xiaofeng Tan, Chemistry. Spectroscopy and Dynamics of van der Waals Complexes Containing the Aluminum Atom and of Several Small Molecules. Monica Tanase, Physics and Astronomy. Ferromagnetic Nanowires: Field-Induced Self-Assembly, Magnetotransport, and Biological Applications. Tatjana Polony Thomas, Biology. RNA Processing and Tumorigenesis: A Study of the Function of the negative Regulator of Splicing in Avian Leukosis Virus. Mark Lloyd Thompson, History. National Subjects in a Contested Colonial Space: Allegiance, Ethnicity, and Authority in the

Daniel Marc Silevitch, Physics

and Astronomy. Properties

Seventeenth-Century Delaware Valley. Tanya J. Tiffany, *History of Art*. Interpreting Velázquez: Artistic Innovation and Painted Devotion in Seventeenth-Century Seville. Andrew George Timmes, *Biology*. Activity on

Biology. Activity on Monomeric DNA Binding Domain of AraC With and Without an N-terminal Activating Arm. Jessica Torres, *Chemistry*. Radical Reactions With Organic/Polymeric Surfaces.

Vittorio Trionfi, *Romance Langnages and Literatures*. The Surrealist Imaginary of Antonin Artaud (1924– 1929).

Rosemary Constance Trippe, *History of Art.* The *Hypnerotomachia Polifili* and the Image of Italian Humanism.

Oskar Vafek, *Physics and Astronomy*. Quasiparticles and Vortices in the High Temperature Cuprate Superconductors.

Walter Andrew Wasylenko, *Chemistry*. Chemistry and Spectroscopy of Oxynitrenes and Sulfenylnitrenes.

Hadiya Atasha Watson, *Biology*. Role of the Yeast Epsin Ent1 in Endocytosis and Actin cytoskeleton Organization.

Sanne Rusalka Wellen, *History* of Art. Andrea del Sarto, "Pittore senza errori": Between Biography, Florentine Society, and Literature.

April Ariana Wuensch, *French*. Beckett et le séjour narratif: l'espace, du théâtre au *Dépenplenr*.

Guihua Xie, *Sociology*. Market Transition of Laid-off Workers in Urban China.

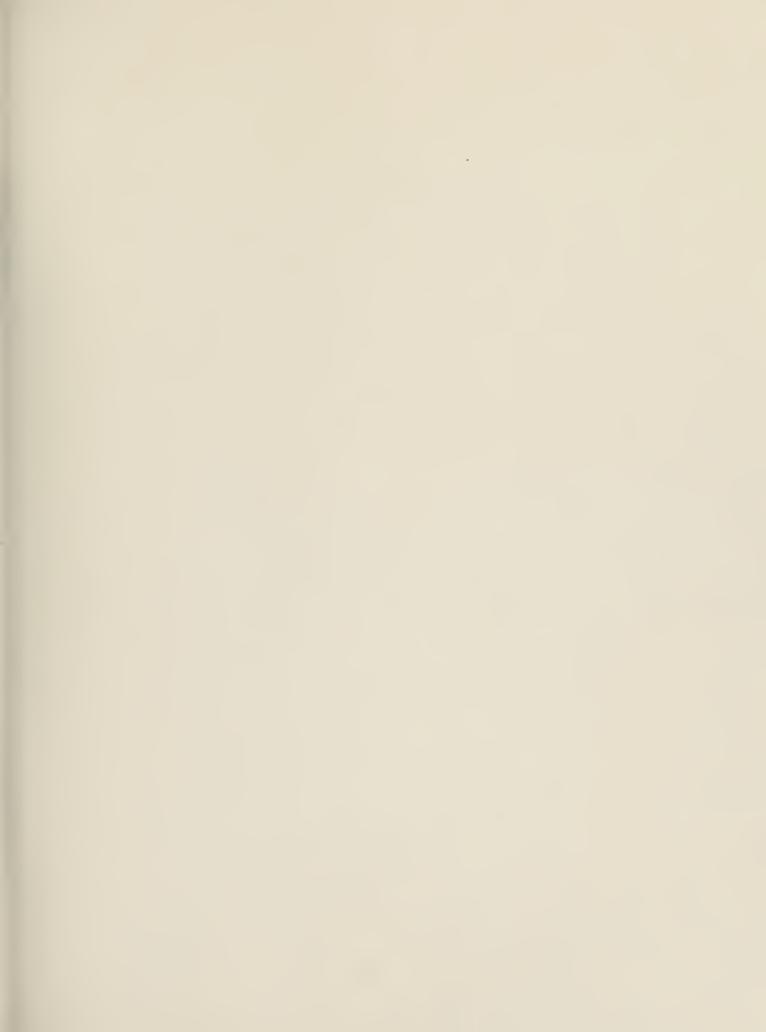
Xiaobo Xie, *Physics and Astronomy*. Integrated Devices for RF Photonics: Design and Optimization.

Xiangjin Xu, *Mathematics*. Eigenfunction Estimates on Compact Manifolds with Boundary and Hörmander Multiplier Theorem.

Kai Yi, Physics and Astronomy. A Measurement of the $\Lambda_{\rm b}$ Lifetime Using Semileptonic Decays and Observation of the New State X(3872). Craig Bryan Yirush, History. From the Perspective of Empire: The Common Law, Natural Rights and the Construction of American Political Culture, 1689–1774. Michael Arthur Zeitler, English. Representations of Culture: Thomas Hardy's Wessex and Victorian Anthropology. Sirong Zhang, Mathematics. Curvature Estimates for

Constant Mean Curvature Surfaces in 3-Manifolds.

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Office of the Registrar

75 Garland Hall / 3400 N. Charles Street Baltimore MD 21218-2688 410-516-8080 July 2004

For those who use the Commencement Program as an official record of the awarding of degrees, please note the following changes to the 2004 Commencement Program:

- 1. Departmental Honors (Arts & Sciences) Page 25 27
 - Add:Michael Anthony Balazs, Computer Science (second major)John Paul Bida, MathematicsBrendan Patrick Costigan, Political ScienceCassandra Rae Duffy, History of ArtAlexandra Kate Mariette Fenwick, Writing SeminarsHoi Man Connie Ho. Public Health StudiesHadi Husain, Computer Science (second major)Rapahel Daniel Schweder-Koren, Computer Science (second major)Emanual Alexandre Strauss, Computer Science (second major)Christopher Pascal Tallent, Political ScienceMadhav Raina Thapan, International StudiesMan-wing Joanne Tsui, Computer Science (second major)

Departmental Honors (Engineering) Page 26 - 27

- Add: Soo-Young Cho, Computer Science Rebecca Elizabeth Lund, Electrical Engineering Justin Howe Kearns, Computer Engineering
- 2. Bachelors of Science in Biomedical Engineering (Engineering) Page 28
 - Add: Nicholas Liu Chang Cher
 - Delete: Joshua Michael Danza Leven Laura Ann Sprowls

3. Bachelors of Science in Civil Engineering (Engineering) Page 28

Delete: Ryan Christopher Hanley

4. Bachelors of Science in Computer Engineering (Engineering) Page 28

Delete: Glenn Mason Wilson

5. Bachelors of Science in Computer Science (Engineering) Page 28 - 29

Delete: Marc David Lassin William Emerson Six

6. Bachelors of Science in Electrical Engineering (Engineering) Page 29

Delete: Michael Willem Kruger

7. Bachelors of Science in Mathematical Sciences (Engineering) Page 29

Delete: Henry Hyuck Paik

8. Bachelors of Arts in Biomedical Engineering (Engineering) Page 29

Delete: Frederick Chengtin Yeh

9. Bachelors of Arts in Computer Science (Engineering) Page 29

Add: Raphael Daniel Schweber Koren Hyun Woo Yoon

- 10. Bachelors of Science in Molecular and Cellular Biology (Arts and Sciences) Page 30
 - Add: Gehaan Franklin D'Souza Jamie Allison Stratton

Delete: Andrew Ryan Turkenhopf

- 11. Bachelor of Arts (Arts and Sciences) Page 30 33
 - Add: Parker Burgess Emmett Ryan Michael Ford Andrew Ryan Turkenhopf Frederick Chengtin Yeh
 - Delete: Eric Hyungene Ahn **David McKinley Harris** Kevin John Boland Ryan Donovan Hopson Victoria Lee Calderón Chang-Berm Kang Christina Tien Hui Choi Ashley Duqué Kienzle Kyuhwa Chung Sovoung Kim Gehaan Franklin D'Souza Maria Jeanne Malbroux Luke Horsfall English Neena Ishwari Marupudi Conor Joseph Ford Maura Rose McTague Joe Andrew Nuni Kelly Laurena Greaves Joseph Salvatore Guarino **Daniel Steven Ong**

Michelle Anastasia Polley Dushon DeVere Riley Ana Lauren Rosner William Marshall Ross Christopher Paul Said Raphael Daniel Schweber Koren James Stevenson Matthew Clayton Stoffel Jamie Allison Stratton Kevi Farrell Telford

- 12. Bachelor of Music (Peabody) Page 33
 - Delete: Lauren Dannelly, Delete Recording Arts and Sciences only- still received BM in Violin Kenneth Hin Joong Lun, Trumpet
- 13. Bachelors of Science (School of Nursing May 2003) Page 33

Delete: Jeretha I. Mangahas

- 14. Bachelor of Science (School of Professional Studies in Business and Education) Pages 34 35
 - Delete: Robert Gaskins Jr., Management William Joseph Perkins, Business and Management
- 15. Graduate Certificates in Business (School of Professional Studies in Business and Education) Pages 35 36
 - Add: Antoinette Hicks, Business of Medicine
 - Add: The following students earned a Graduate Certificate in Leadership Development: Preston D. Alderman, Jr. Kevin Ulysses Johnson Jennell M. Alexander Angela Yvette Liggins Lisa Renata Brewster Angela Louise Mellerson Cassandra Brown Patrick G. Moffett Makeba Jo Anna Brown-Moyenda Mamie Regina Moore Sullie Evetter Coleman Durell T. Myers Tonika Nicole Coley Wayne Ramon Newman Angelita Latonya Crawford Annette Theresa Roane Melicia Ann Dupree Srinivasa Varma Rudraraju Farissa Natasha Elvis Carlton Joe Shaw Lawrence Winston Fryer, Jr. Latarsha M. Smith Jacqueline Renee' Glover Juan C. Torrico Oneida L. Holman Sharon Washington Webb
 - Delete: Henri Blech Yitzchak S. Jacobovitz
- 16. Graduate Certificates in Education (School of Professional Studies in Business and Education) Page 36-38
 - Add:Mica Llin Brindle, Differentiated/Inclusive Education: Advanced Methods for Instruction
Fernanda Jaramillo, Education of Students with Autism and Other Pervasive
Developmental Disorders
Johahn B. Oliphant, Administration and Supervision
 - Delete: Candace Sheree Gibbs, Administration and Supervision

Sandra Sue Reece (Delete the Leadership In Technology Integration cert. Only) Diane Denise Savage_a Administration and Supervision

- 17. Master of Science (School of Professional Studies in Business and Education) Pages 38 44
 - Add:Michele Yvette Amerson, Education
Alhassan Theodore Bangura, Finance
David Ethan Bielory, Counseling
Mica Lin Brindle, Special Education
Alexis Bakrim Cotay III, Education
Fernanda Jaramillo, Special Education
Jonathan D. Nachtsheim, Information and Telecommunication Systems
Sylvie Kajuru Nkere, Education
Rachel Elizabeth Solomon, Education
Jagadeesan Sriramkumar, Information and Telecommunication Systems
Valerie Bonita Stamper, Education

| Delete: | Sunny Davies Atteh Chi | Linda S. Moorman |
|---------|--------------------------|------------------------|
| | Kelly Nicole Brown | Charles Alan Morgan |
| | Timothy Lynn Carter | Anne M. Murphy |
| | Nicholas Coppolino | Brian Henry O'Hear |
| | Soraya Cinira Dos Santos | Edith Nnenna Onyirimba |
| | Kathleen Maureen Faber | Sandra Sue Reece |
| | Ramon Maria Garcia | James Andrew Schroeder |
| | Michael Anthony Gerran | Eve Williams Spearman |
| | Sonja Rae Gladwin | June I. Thomas |
| | Siamak O. Gorgreen | Daryl E. Walsh |
| | Donald Edward Leake | Sybille R. Young |

18. Masters of Business Administration (School of Professional Studies in Business and Education) Page 45 - 46

| Add: | Ramesh Byanjankar John F. Dore William Joseph McDermond, III Erik John Newhouse |
|--------------|--|
| Delete: | Zembaba Ayalew Henri Blech Marilyn McDonald Essex Wavell Constantine Hodge Mark D. Lewis |
| Corrections: | Mispelled names: Binita S. Ash <u>a</u> r Mohamed Momodu Koroma |

19. Master of Arts in Teaching (School of Professional Studies in Business and Education) Page 46 - 48

Add: Yahbome Irene Bash-Taqi Joseph Michael Connelly, III David Michael Hildebrand Anissa Shawn Stubbs Celissa Shanette Tucker

Delete:

Ann Hanlon Adams Michele Yvette Amerson Joseph A. Avara Damian Avichi Mia Olivia Ball Magali Barbaran **Emily Jean Benson** Crystal A. Blue Carolyn Lou Bowman Cheryl Hyman Carpenter **Connie Liao Chang** Sammy A. Conteh Alexis Bakrim Cotay, III Karen Grace Crawford Marcus Javon Davis Meredith M. DeGemmis Shiquetta Sherrill Dixon Lee Erin Kathleen Doland Ryan Vincent Farrell **Diana** Fink Beth Jane Foster Amy Miller Gartland Job Shin Grotsky Victoria Hamilton Kristen Angela Harkness

Wendy Pamela Harris William Howard Hill, Jr. Zachary Jaffe Katie Anne Keelev Robert Alan Kennedy Joel LaTorre Donna Ann McNeill Tamyka S. Morant Roseline Enayi Njar Marilyn E. Palmer Marie Laurie Parfait Edward J. Pietroski Jennifer Leigh Poisson Lauren F. Rogers Barbara Elizabeth Ryan Toby Jan Salahuddin Tara Maxine Sanguinette Andrew William Schroeder Valerie Bonita Stamper Nicole Stewart Jacqueline Annette Tyson-Hope Yiping Helen Wang Cynthia Marie Welch Chevanne Maree Zahrt Andrew Robert Zapke

20. Post -Master's Certificates in Education (School of Professional Studies in Business and Education) Page 48

Delete: Anise MaSean Walker

21. Masters of Science in Nursing (Nursing) Page 48

Delete: Charia Louise Friend

22. Master of Science Nursing/Master of Public Health (Nursing) Page 48

Delete: Deirdre Fiona Flowers

- 23. Graduate Performance Diploma (Peabody) Page 48
 - Delete: Rebecca Gordon, Voice SooKyung Jeong, Viola Bohuslav Rattay, Conducting

24. Masters of Music (Peabody) Page 49

| | Add: | Ilya Mayzus (Also received a MM in Composition) |
|-----|---------------------|---|
| | Delete: | HoYao Chang, Voice |
| | | Christopher Dennis Dunn, Guitar |
| | | Mark Kris Emon, Computer Music Research |
| | | Sujung Sun, Piano |
| | | Piotr Adam Zielinski, Guitar |
| | Correction: | Elizabeth Sarah Mahler, Violin/Pedagogy |
| 25. | Master of Arts - Pl | ease add in Acoustics and Audio to the degree title (Peabody) Page 49 |

- Delete: Richard Alexander Staherski
- 26. Masters of Health Science (Public Health) Page 49 51
 - Delete: Jing Feng Susan Gail Gerhardt Caroline Afia A. Lomo Raquel Maria Peralta Laurena Leigh-Charlotte White Rena Rosa Yi Ji Yeon Yu
 - Correction: Justine E-Time Dang should be Justine E-Time Dang
- 27. Masters of Public Health (Public Health) Page 51 52
 - Add: Claire Magner Hannan Joan Stelmack
 - Delete: Jerome J. Graber Sophia Jan
- 28. <u>Master of International Public Policy</u> (School of Advanced International Studies) Page 52
 - Add: Paal Aavatsmark Maria Marcich
 - Delete: Delrose Eunice Montague
- 29. Master of Arts in International Affairs (School of Advanced International Studies) Page 52
 - Delete: Chloe Dalton Elisabetta Gnudi Candice Koo

30. Master of Arts (School of Advanced International Studies) Page 53 - 54

Add:

Kathleen M. Benedict Mark T. Fung Daniel C. Joyce

Delete: Negar Akhavi Elana Danielle Aquino Farrah Barrios Rebekah Callard Pavlo Chernyshenko Vicky Cheung Darlene Michelle Damm Dennis Ilustre Eucogco Maria Andrea Farkas Tracy Henrietta Gerstle Wendy Lynn Glickman **Daniel Gould** Peter Holland Rachel Yann-Eel Huang Mohammad Adnan Iqbal John Stephen Juech Lisa Levine Anel Radikovna Kulakhmetova Sean Lee Lisa Shih Yun Liao Sebastian Linnemavr Edward Thomas Mannix III Janean Elyse Martin

Carl Victor McCoy Catherine McSweeney Michael Joseph Metzler Rashmi Kamalakar Pendse Thu-Uyen Phan Jennifer Michelle Pope Jeannie Ji Yun Rhee Jocelyn Davie Roberts Loren Hayes Runyon Karim Sadjadpour Edward Jonathan Sappin Heather Nicole Schlachter Shilpa V. Shah Christopher Richard Wilson Shephard Kristin Lalinda Smith Katie Andrea Stauss Thomas Darien Sturges Katsiaryna Svirydzenka Camilo Tellez Merchan Nisha Thirumurthy Melissa Child Tilghman Marcos Toledano Vaena Ibrahim Mohsen Zabad

31. Masters of Materials Science and Engineering ADD the Degree Categories to page 55

Add: Marissa O'Donnell

32. Masters of Science (Engineering) Pages 55 - 60

| Add: | Sriram Ananthanarayanan, Geography and Environmental Engineering |
|------|--|
| | Steven C. Bono, Security Informatics |
| | Wilbur Y. Chen, Computer Science |
| | Peter L. Flannery, Computer Science |
| | Derek Clayton Fulk, Electrical and Computer Engineering |
| | Alicia T. Joseph, Geography and Environmental Engineering |
| | Sampath Parthasarathy, Computer Science |
| | Lewis Ross Raszewski, Security Informatics |
| | Vikas Sood, Computer Science |
| | Kimbel Leonard Summerville, Computer Science |
| | Liren Yang, Electrical and Computer Engineering |

Delete: Lawrence Martin Dobbs Jr., Applied Biomedical Engineering Endora Fleming, Information Systems and Technology Luke Andrew Johnson, Security Informatics Rezwan Rais, Computer Science Amit Kumar Sharma, Information Systems and Technology Joseph Michael Smith, Geography and Environmental Engineering Wei Ting Timothy Woo, Security Informatics

33. Post- Master's Advanced Certificates (Engineering) Page 60

| Add: | Stuart Dwight Harshbarger, Applied Biomedical Engineering |
|------|---|
| | |

Delete: Andrew Evander McCoy, Computer Science

34. Masters of Science in Engineering (Engineering) Pages 60

| Reneé Jeanne Filion, Biomedical Engineering | | |
|--|--|--|
| Stephen Christopher Martin, Mechanical Engineering Charles Franklin Schafer III, Computer Science | | |
| | | |
| Sriram Ananthanarayanan, Geography and Environmental Engineering | | |
| Borga Can Aymutlu, Computer Science | | |
| Ying Bai, Electrical and Computer Engineering | | |
| Ja Tara Chanel Brown, Computer Science | | |
| Ryan Wallace Caudy, Computer Science | | |
| Nadia Farooqi, Computer Science | | |
| Kathryn Anne Hayes, Computer Science | | |
| Leonard Chinedum Onyiah, Computer Science | | |
| Asher Hanan Peltz, Civil Engineering | | |
| Neda Bell Poommipanit, Biomedical Engineering | | |
| Srihari H. Reddy, Electrical and Computer Engineering | | |
| Mark Richard Seaborn, Computer Science | | |
| Quan Zhang, Mechanical Engineering | | |
| | | |

35. Masters of Arts (Arts and Sciences) Page 61 - 63

- Add: Adhiraj Bharat Sarpeshkar, Mathematics
- Correction: Julia Yarmolinkskaya last name is spelled: Yarmolinskaya

36. Masters of Science in Biotechnology (Arts and Sciences) Pages 63 - 64

| Add: | Miguel Luis Covarruvias | |
|---------|---------------------------|--|
| | Lakeisha Sharese Galloway | |
| | Therese Wu Vardon | |
| Delete: | Paul Andrew Sachtleben | |

37. Master of Arts in Communication in a Contemporary Society (Arts and Sciences) Page 64

Add: Angela Kristi Moffett Isabella Obnial Platon

38. Masters of Science in Environmental Sciences and Policy (Arts and Sciences) Page 64

Delete: Angus Macdonald Parker

39. Master of Arts in Government (Arts and Sciences) Page 64 - 65

Add: Theda Benja - Athon

Delete: Christopher King Ross Mary Lakeisha Corbin

- 40. Masters of Liberal Arts (Arts and Sciences) Page 65
 - Add: Edward O. Doyle Gillespie

Delete: Daryl Matthew Carson Suzanne Nadine Stackhouse (Pessot)

41. Master of Arts in Writing (Arts and Sciences) Page 65

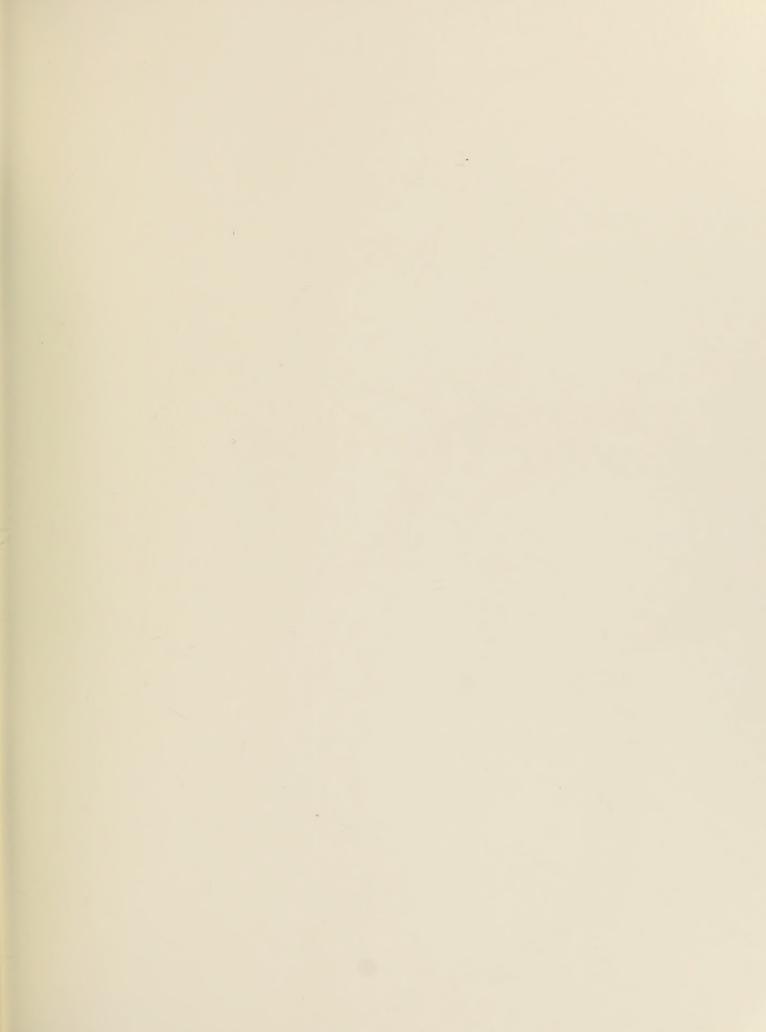
Delete: James Reginald Wideman

42. Artist Diploma (Peabody) Page 65

Delete: Christie Julien, Piano

43. Doctor of Musical Arts (Peabody) Page 65

Add: Jieun Jeanie Lee, Piano





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